

GenCore Version 5.1.6  
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OM nucleic - nucleic search, using sw model  
Run on: October 15, 2003, 11:15:03 ; Search time 93.2674 Seconds  
(without alignments)  
9303.989 Million cell updates/sec

Title: US-09-864-711-1  
Perfect score: 1966  
Sequence: 1 caaatgagctgttaagaa.....atgtcaaaaaaaaaaaaaa 1966

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_NA:\*  
1: /cgn2\_6/ptodata/2/ina/5A.COMB.seq.\*  
2: /cgn2\_6/ptodata/2/ina/5B.COMB.seq.\*  
3: /cgn2\_6/ptodata/2/ina/6A.COMB.seq.\*  
4: /cgn2\_6/ptodata/2/ina/6B.COMB.seq.\*  
5: /cgn2\_6/ptodata/2/ina/PCTUS.COMB.seq.\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	164.6	8.4	4360	1 US-08-470-350B-1	Sequence 1, Appli
2	156	7.9	167	1 US-08-700-575-39	Sequence 39, Appli
3	122.8	6.2	5802	4 US-09-341-587-4	Sequence 4, Appli
4	73.4	3.7	2001	4 US-09-341-587-2	Sequence 2, Appli
5	65	3.3	11272	4 US-09-341-461-1	Sequence 1, Appli
6	56.6	2.9	28720	4 US-09-341-587-7	Sequence 7, Appli
7	54.2	2.8	5021	4 US-09-285-385C-1	Sequence 1, Appli
8	52.6	2.7	3690	3 US-08-991-408-3	Sequence 3, Appli
9	52.6	2.7	3690	4 US-09-432-473-3	Sequence 3, Appli
10	52.6	2.7	3919	2 US-08-866-650-4	Sequence 4, Appli
11	52.6	2.7	3919	2 US-09-021-287-4	Sequence 4, Appli
12	52.6	2.7	3919	3 US-09-240-473-4	Sequence 4, Appli
13	51.6	2.6	4771	2 US-08-866-650-2	Sequence 2, Appli
14	51.6	2.6	4771	2 US-09-021-287-2	Sequence 2, Appli
15	51.6	2.6	4771	3 US-09-240-473-2	Sequence 2, Appli
16	51	2.6	5145	3 US-08-991-408-1	Sequence 1, Appli
17	51	2.6	5145	4 US-09-432-473-1	Sequence 1, Appli
18	48.4	2.5	1802	3 US-09-032-523-5	Sequence 5, Appli
19	47.8	2.4	4661	4 US-09-285-385C-3	Sequence 3, Appli
20	45.6	2.3	2457	3 US-08-872-757-1	Sequence 1, Appli
21	45.6	2.3	2457	4 US-09-850-048A-1	Sequence 1, Appli
22	45.6	2.3	2487	1 US-08-377-292-1	Sequence 1, Appli
23	44	2.2	3546	3 US-08-872-757-3	Sequence 3, Appli
24	44	2.2	3546	4 US-09-850-048A-3	Sequence 3, Appli
c 25	40	2.0	972	4 US-09-601-198-127	Sequence 127, App
c 26	38.6	2.0	726	4 US-09-107-532A-1192	Sequence 1192, Ap
27	38	1.9	1414	1 US-08-024-868-1	Sequence 1, Appli

28	38	1.9	1414	2 US-08-242-097-1	Sequence 1, Appli
29	38	1.9	1414	3 US-09-206-695-1	Sequence 1, Appli
30	38	1.9	1414	4 US-09-799-118-1	Sequence 1, Appli
31	38	1.9	1734	4 US-09-484-970B-63	Sequence 63, Appli
32	37.4	1.9	2581	1 US-08-200-900A-1	Sequence 1, Appli
33	37.4	1.9	2581	5 PCT-US94-00616-1	Sequence 1, Appli
c 34	36.2	1.8	1887	4 US-09-601-198-39	Sequence 39, Appli
35	36	1.8	771	1 US-07-941-523-9	Sequence 9, Appli
36	36	1.8	774	1 US-07-941-523-5	Sequence 5, Appli
37	36	1.8	774	1 US-07-941-523-7	Sequence 7, Appli
38	36	1.8	777	1 US-07-941-523-3	Sequence 3, Appli
39	36	1.8	819	1 US-08-320-161-3	Sequence 18, Appli
40	36	1.8	819	3 US-08-642-807A-18	Sequence 3, Appli
41	36	1.8	819	3 US-08-455-829-3	Sequence 3, Appli
42	36	1.8	819	3 US-08-235-836C-94	Sequence 94, Appli
43	36	1.8	819	4 US-08-455-973-3	GENERAL INFORMA
44	36	1.8	822	1 US-07-941-523-1	Sequence 1, Appli
45	36	1.8	822	3 US-08-235-836C-6	Sequence 6, Appli

## ALIGNMENTS

RESULT 1  
US-08-470-350B-1  
; Sequence 1, Application US/08470350B  
; Patent No. 5684126  
; GENERAL INFORMATION:  
; APPLICANT: Li, Xiao  
; APPLICANT: Snyder, Solomon H  
; TITLE OF INVENTION: Eberlin: A Secreted von Ebner's Gland  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Banner & Witcoff, Ltd.  
; STREET: 1001 G Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20001  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08470350B  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Wolfe, Susan A.  
; REGISTRATION NUMBER: 33,568  
; REFERENCE/DOCKET NUMBER: 01107.48790  
; TELEPHONE: 202-508-9100  
; TELEFAX: 202-508-9299  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4360 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: CDNA  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; ORGANISM: Rattus rattus  
; ORIGINAL SOURCE:  
; NAME/KEY: CDS  
; LOCATION: 94..3963  
US-08-470-350B-1

Query Match 8.4%; Score 164.6; DB 1; Length 4360;

Db	3613	AACCGCTTCCCTCAGTATACCTACAGTGTAACTGGTGGTTCTCGAGCAACAGTGTCTC	3617	1528	CAGTCTCCGCTGCAATCAAGTGTGTCTCCAGAGCAACAAACAGAGACATTTCTTCATATAAA	1587
Qy	1528	CAGTCTCCGCTGCAATCAAGTGTGTCTCCAGAGCAACAAACAGAGACATTTCTTCATATAAA	1587	3673	TCCTCAGCGTGTCCAGAGGATGTGTAGTAAGTCCCAAGAGAGGATGTAGGCTCCTACCAA	3732
Db	3673	TCCTCAGCGTGTCCAGAGGATGTGTAGTAAGTCCCAAGAGAGGATGTAGGCTCCTACCAA	3732	1588	TGGAACACAGATTCATCATAGGACCAATTCGCTCGTGA	1626
Qy	1588	TGGAACACAGATTCATCATAGGACCAATTCGCTCGTGA	1626	3733	GAAGAGTGGATGTGTCTTGGGACCATCCAGTGTGCA	3771
Db	3733	GAAGAGTGGATGTGTCTTGGGACCATCCAGTGTGCA	3771	RESULT 2		
US-08-700-575-39						
Sequence 39, Application US/08700575						
Patent No. 5817479						
GENERAL INFORMATION:						
APPLICANT: Au-Young, Janice						
APPLICANT: Bandman, Olga						
APPLICANT: Hawkins, Phillip R.						
APPLICANT: Wilde, Craig G.						
TITLE OF INVENTION: NOVEL HUMAN KINASE HOMOLOGS						
NUMBER OF SEQUENCES: 45						
CORRESPONDENCE ADDRESS:						
ADDRESSEE: INCITE PHARMACEUTICALS, INC.						
STREET: 3174 PORTER DRIVE						
CITY: PALO ALTO						
STATE: CA						
COUNTRY: USA						
ZIP: 94304						
COMPUTER READABLE FORM:						
MEDIUM TYPE: Floppy disk						
COMPUTER: IBM PC compatible						
OPERATING SYSTEM: PC-DOS/MS-DOS						
SOFTWARE: Patent In Release						
CURRENT APPLICATION DATA:						
APPLICATION NUMBER: US/08/700,575						
FILING DATE:						
CLASSIFICATION: 435						
ATTORNEY/AGENT INFORMATION:						
NAME: BILLINGS, LUCY J						
REGISTRATION NUMBER: 36749						
REFERENCE/DOCKET NUMBER: SP-100 US						
TELECOMMUNICATION INFORMATION:						
TELEPHONE: 415-855-0555						
TELEFAX: 415-845-4166						
INFORMATION FOR SEQ ID NO: 39:						
SEQUENCE CHARACTERISTICS:						
LENGTH: 167 base pairs						
TYPE: nucleic acid						
STRANDEDNESS: single						
TOPOLOGY: linear						
MOLECULE TYPE: CDNA						
IMMEDIATE SOURCE:						
LIBRARY: Pancreas						
CLONE: 223163						
US-08-700-575-39						
Query Match 7.9%; Score 156; DB 1; Length 167;						
Best Local Similarity 99.4%; Pred. No. 2.3e-38;						
Matches 167; Conservative 0; Mismatches 0; Indels 1; Gaps 1;						
Qy	830	CTTGCTCTCTTCGACGATGAGGTATATATAGCAAAATCTTACCTAGAGCTTTTAACT	889	1	CTTGCTCTCTTCGACGATGAGGTATATATAGCAAAATCTTACCTAGAGCTTTTAACT	890
Db	1	CTTGCTCTCTTCGACGATGAGGTATATATAGCAAAATCTTACCTAGAGCTTTTAACT	890	890	CTAATGGGAATACTTCGCACTTAAAGACCACTTGCAGACCAAAATATATCAATGTTG	949
Qy	890	CTAATGGGAATACTTCGCACTTAAAGACCACTTGCAGACCAAAATATATCAATGTTG	949	61	CTAATGGGAATACTTCGCACTTAAAGACCACTTGCAGACCAAAATATATCAATGTTG	120
Db	61	CTAATGGGAATACTTCGCACTTAAAGACCACTTGCAGACCAAAATATATCAATGTTG	120	950	TGGAATTTCTGCTCCCTCTTAAATGATGCTGGTACATCAGAAAGTAG	997
Qy	950	TGGAATTTCTGCTCCCTCTTAAATGATGCTGGTACATCAGAAAGTAG	997	121	TGG-ATTCTTCTGCTCCCTCTTAAATGATGCTGGTACATCAGAAAGTAG	167
Db	121	TGG-ATTCTTCTGCTCCCTCTTAAATGATGCTGGTACATCAGAAAGTAG	167			

RESULT 3  
US-09-341-587-4  
; Sequence 4, Application US/09341587  
; Patent No. 6346606  
; GENERAL INFORMATION:  
; APPLICANT: Mollenhauer, Jan  
; TITLE OF INVENTION: Protein Containing an SRCR Domain  
; FILE REFERENCE: 4121-108  
; CURRENT APPLICATION NUMBER: US/09/341.587  
; CURRENT FILING DATE: 1999-08-31  
; EARLIER APPLICATION NUMBER: PCT/DE98/00096  
; EARLIER FILING DATE: 1998-01-09  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 4  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-341-587-4

Query Match 6.2%; Score 122.8; DB 4; Length 5802;  
Best Local Similarity 48.0%; Pred. No. 3.5e-27;  
Matches 577; Conservative 0; Mismatches 577; Indels 48; Gaps 6;

QY	462	CTGTGGGGTTTACTGGATACCTTGGAAAGGATCTTCACAGCCGCCCAATTCACCAAGGC	521
Db	4243	CTGGGGAGCTTCTATCCACCATCAGGGAGCTTTTCAGCCCAATTCATCCGGGAA	4302
QY	522	GCATCTGAGTGGCTTATGTGTGGCACAACAGTGGAGAGAAAGATTAACAAGATAA	581
Db	4303	CTATCCAAACATGCCAAGTGTGTGGACATTCGAGTGCAGAAACAACTACCGTGTGAC	4362
QY	582	ACTAACTCAAGAGATTTTCTAGAAATAGACACAGTGCAGAAATTTGATTTCTTGC	641
Db	4363	TGTGATCTTCAGAGATCTCCACTTGAAGTGGC-----TGCACATGATGATATGA	4416
QY	642	CATCTPANGAGGCCCCCTCCACCAACTCTGGCCCTGANTGGACAGTGTGGCCGTGTGAC	701
Db	4417	AGTTTTCGATGGCCCTTACCGGAGTTCCCTCTCATTTGCTCGAGTTTGTGATGGGCCAG	4476
QY	702	TCCCACCTTCGAATCTCATCAACTCTCTGACGTGCTGTTCTACAGATTATGCCAA	761
Db	4477	AGGCTCCCTCACTTCTTCTCCCAACTTCATGTCCATTCGCTTCATCAGTGACCAAGCAT	4536
QY	762	TTCTTACCGGGGATTTCTCTCTCTACACCTCAATTTATGCAGAAAACATCAACATAC	821
Db	4537	CACAAGGAGAGGTTCCGGGCTGAGTACTACTCTCAGTCCCTCCATGACAGCAACCT	4596
QY	822	ATCTTAACTTGTCTCTGACAGGATGAGAGTTATTAAGCAATCTTACCTAGAGGC	881
Db	4597	GCTCTGTCTGCAATCAGATGCAAGCCAGTGTGAGCAGGAGCTATCTCCATCTTGGG	4656
QY	882	TTTTAACTTAATGGGAAT-----AACTTCAACTAAAGACCCCAACTTCAGAGCC	932
Db	4657	CTTTTCTGCAGTCACTTCTCATTTCCACCTGGAATGATACAGAGTTCGGGCCCA	4716
QY	933	AAATATCAATGTTGTGGAAATTTCTGCTCCCTTAATGGATGGTACAAATCAGAAA	992
Db	4717	GATAAGCCGCAATGTTGTGATATTCACAAATTCCTTACTAGGCTGGCGACCTTCAAGCA	4776
QY	993	GGTAGAGATCAGTCAATTTACTACCAATATTAATCACTTTCTTCGATCTCACTTC	1052
Db	4777	GGCAGCAATGACACATTCACATTTCCAACTTCTCTCAGAGAGCTGTCA-----GG	4830
QY	1053	TGAAGTGATCCCGCTCAGAAAACACTCCAGATTTATGTGAAGTGTGAATGGGACATAA	1112
Db	4831	TGGCATCATCAGAGAGGAGACAGCCCTCGTATTCAGCTCAGCTGAGCAATGCTTCAGAA	4890
QY	1113	TTCTACAGTGGAGATATATACATACAGAGATGATGATATACAAAGTCAAAATGCACT	1172
Db	4891	CACCTGGGTGACACCAATGATGCTTAATGACACCATCCACGTTGCTTAATAACACCAT	4950

QY	1173	-----GGGCAATATATAACACAGCATGGCTCTTTTGTGAATCAA	1211
Db	4951	CCAGGTCGAGGAAGTCCAGTATGGCAATTTTGAAGTGAACATTTCTTTTACTCTCTC	5010
QY	1212	TTCAATTTGAAAAGACTATACCTTGAATCACCATATATATGTGATTTGAACCAACTCTTT	1271
Db	5011	ATCTTTCTTGTATCTGTGACAGCGCCCTTACAGTGGACCTGAACAGGACTTGTA	5070
QY	1272	TTTTCAAGTTAGTCTGCACACCTTCAGATCCAAATTTGGTGTGTCTTTCTTGAACCTGTAG	1331
Db	5071	CGTTCAGGCTGAAATCTCCATCTCTGATGCTGATGACCTTTTGTGGACACCTGGT	5130
QY	1332	AGCCTCTCC---CACCTCTGACTTTCGATCCCACTAGACCTAATCAAGAGTGGATG	1388
Db	5131	GGCATCACCATCTCCATGACTTCAGCTTTCGACTTATGATCTAATCCGAGTGGATG	5190
QY	1389	TAGTCGAGATGAAACTTTGTAAGGTGATCCCTTA---TTTGGACACTATGGAGATCCCA	1445
Db	5191	CGTGAGGGATGACACCTAOCAGGACCTACTCTCGCGCTCTCTTCGCANTGCCCGCTCCG	5250
QY	1446	GTTTAATGCTTTAAATCTTGAGAGATGATGAGCTGTGTATCTGCAGTGTAAAGTTT	1505
Db	5251	GTTCAGGGCTTTCACACTTCTCTGAAACCGCTCCCTTCGCTGTACCTGCTGTGAAAATGGT	5310
QY	1506	GATATGTGATAGCAGTGAACACCAAGCTCTCGCTGCAATCAAGTTGTCTCTCCAGAAAGCAA	1565
Db	5311	GGTGTGCAGAGGATGACCCCTCTTCCCGCTGCTACCGAGGCTGTGTGTGAGGTGAA	5370
QY	1566	ACGAGACATTTCTCATATTAATGGAACAGATTCATATAGGACCCATTCCTGCTGAA	1625
Db	5371	GAGGGATGTGGCTCTCTACAGGAAAGGTGACGTCTGCTGGGTCCCATCCAGCTCCA	5430
QY	1626	AA 1627	
Db	5431	GA 5432	

RESULT 4  
US-09-341-587-2  
; Sequence 2, Application US/09341587  
; Patent No. 6346606  
; GENERAL INFORMATION:  
; APPLICANT: Mollenhauer, Jan  
; TITLE OF INVENTION: Protein Containing an SRCR Domain  
; FILE REFERENCE: 4121-108  
; CURRENT APPLICATION NUMBER: US/09/341.587  
; EARLIER FILING DATE: 1999-08-31  
; EARLIER APPLICATION NUMBER: PCT/DE98/00096  
; EARLIER FILING DATE: 1998-01-09  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 2001  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-341-587-2

Query Match 3.7%; Score 73.4; DB 4; Length 2001;  
Best Local Similarity 51.0%; Pred. No. 3.1e-12;  
Matches 173; Conservative 0; Mismatches 166; Indels 0; Gaps 0;

QY	456	TCCAACTGTGGCGTTACCTGGATACCTTGGAGGATCTTACACAGGCCCAATTAACC	515
Db	555	TTCAATTTGGTGGCTCTTTATCTATGCCAGTGGACATTTCCAGGCCCATCTTACC	614
QY	516	AAAGCCGCATCTCTGAGCTGTGTTGTGGGCACATCAAGAGTGGAGAAATACAA	575
Db	615	TGCATACATCCCAACAATGCTAGTGTGTGGGAAATAGAGTGAATCTGTTATCG	674
QY	576	GATAAATCAACTCAAGAGATTTTCTTGAATATGACAAACAGTCAAAATTTGATT	635
Db	675	CATAAACCCTGGGCTTCAGTAATCTGAAATTTGGAGGCACACCATTAATCTGAGTTTGTATTA	734









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; REGISTRATION NUMBER: 37094
; REFERENCE/DOCKET NUMBER: 960296.93839
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 608-251-5000
; TELEFAX: 608-251-9166
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4771 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 611..3652
; OTHER INFORMATION: /product= "murine mTll protein"
US-08-866-650-2

Query Match 2.6%; Score 51.6; DB 2; Length 4771;
Best Local Similarity 50.8%; Pred. No. 2.8e-05;
Matches 123; Conservative 0; Mismatches 119; Indels 0; Gaps 0;

QY 463 TGTGGCGGTTTACTGTGATACCTTGGAAAGGATCCTTCACCCAGCCCAATTACCCAAAGCCG 522
Db 2462 TCGGGAGACTCTTGACGAAGCTCAATGGGACCAATACCCGCCCGGTGGCCCAAGAG 2521
QY 523 CATCCTGAGCTGGCGTTATTGTGTGGCACAATACAGTGGAGAAAGATTACAAGATAAAA 582
Db 2522 TACCCTCCAAACAATAAAGTGTGTGGCAAGTGATCGGCCCAAGCCGATACAGAACTCT 2581
QY 593 CTAAACTTCAAGAGAGATTTCTTGAATATAGACAACAGATGCAATTTGATTTTCTTGCC 642
Db 2582 GTGAAGTTTTCAGTTTTTGAATTTGGAAGGCAATGAACTTTCGAATACGATTACGTGGAG 2641
QY 643 ATCTATATGGCGCCCTCCACCAACTCTGGCGCTGATTGGACAAGTCTGTGGCCGCTGTGACT 702
Db 2642 ATCTGGAGCGGCCCTCTCTGAGTCTAAACTGCATGGCAGAGTCTGTGGCGCTGCATA 2701
QY 703 CC 704
Db 2702 CC 2703

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Gapop 10.0 , Gapext 1.0

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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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4	1944.4	98.9	2917	10	US-09-905-291A-189
5	1944.4	98.9	2917	10	US-09-902-853-189
6	1944.4	98.9	2917	10	US-09-907-824-189
7	1944.4	98.9	2917	10	US-09-907-841-189
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9	1944.4	98.9	2917	11	US-09-906-742-189
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16	1944.4	98.9	2917	11	US-09-904-786-189

17	1944.4	98.9	2917	11	US-09-906-646-189	Sequence 189, App
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42	1944.4	98.9	2917	11	US-09-903-615-189	Sequence 189, App
43	1944.4	98.9	2917	11	US-09-903-925-189	Sequence 189, App
44	1944.4	98.9	2917	11	US-09-906-760A-189	Sequence 189, App
45	1944.4	98.9	2917	11	US-09-903-823-189	Sequence 189, App

## ALIGNMENTS

RESULT 1  
US-09-864-711-1  
; Sequence 1, Application US/09864711  
; Patent No. US20020077309A1  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkmut, Wayne  
; APPLICANT: Klingler, Tod M.  
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS  
; FILE REFERENCE: PB-0008-1 CIP  
; CURRENT APPLICATION NUMBER: US/09/864, 711  
; CURRENT FILING DATE: 2001-05-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PERL Program  
; SEQ ID NO 1  
; LENGTH: 1966  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: 223163CT1  
US-09-864-711-1

Query Match	100.0%	Score 1966;	DB 9;	Length 1966;
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Matches 1966;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
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RESULT 2  
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 ; Sequence 189, Application US/09909320  
 ; Patent No. US20020132240A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Genentech, Inc.  
 ; APPLICANT: Ashkenazi, Avi  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, A.  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, Christopher J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Hillan, Kenneth, J.  
 ; APPLICANT: Kijavini, Ivar J.  
 ; APPLICANT: Mather, Jennie P.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Pion, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann













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QY 1860 CTCCAGGATGCCAAAGGAATGCTACCTCTGCTGCTACACATATTAATGAATGAAGAA 1919  
Db 2820 CTCCAGGATGCCAAAGGAATGCTACCTCTGCTGCTACACATATTAATGAATGAAGAA 2879  
QY 1920 GGGCTGAAAGTGACACACAGGCTGCTATGCAAAAAA 1957  
Db 2880 GGGCTGAAAGTGACACACAGGCTGCTATGCAAAAAA 2917

RESULT 6  
US-09-907-824-189  
; Sequence 189, Application US/09907824  
; Publication No. US20020197671A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Baton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/907,824  
; CURRENT FILING DATE: 2001-07-17  
; PRIOR APPLICATION NUMBER: 09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-09-907-824-189

Query Match 98.9%; Score 1944.4; DB 10; Length 2917;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

1 CAAATGGAGCTGTGAAGAGCTCATGCCATTGACCTTAAATTCCTCCTCTTTGGC 60
960 CAAATGGAGCTGTGAAGAGCTCATGCCATTGACCTTAAATTCCTCCTCTTTGGC 1019
61 GGA-CTGACATGGCGGAGCTGGAAGCAATGCAAGTGCAGCTGAGCTGAGGGGTGC 119
1020 GGAGCTGACATGGCGGAGCTGGAAGCAATGCAAGTGCAGCTGAGGGGTGC 1079
120 CAAATGTCAGAGACCCACAAAGCCATGATCTCCAACTCAATCCCACTGAGACTGCAC 179
1080 CAAATGTCAGAGACCCACAAAGCCATGATCTCCAACTCAATCCCACTGAGACTGCAC 1139
180 CTGGACATAGAAGACCCAGAAACAAAGCAATGATCTCTTCTTCTTCTTCTTCTTCT 239
1140 CTGGACATAGAAGACCCAGAAACAAAGCAATGATCTCTTCTTCTTCTTCTTCTTCT 1199
240 TGATCCAGATGGAAGCTGTGAAGTGAAGCAATTAAGTCTTTGACGGAACCTCCAGCA 299
1200 TGATCCAGATGGAAGCTGTGAAGTGAAGCAATTAAGTCTTTGACGGAACCTCCAGCA 1259
300 TGGGCTCTGCTAGGGCAAGCTGCGAGTAAAGCAAGTATGTTCTCTGATTTGAATCATC 359
1260 TGGGCTCTGCTAGGGCAAGCTGCGAGTAAAGCAAGTATGTTCTCTGATTTGAATCATC 1319
360 ATCCAGTACATGACGTTTCAATAGTACTGACTGACGAGCAATTAAGCACTGCTT 419
1320 ATCCAGTACATGACGTTTCAATAGTACTGACTGACGAGCAATTAAGCACTGCTT 1379
420 TGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 479
1380 TGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1439
480 TACCTTGAAGGATTCCTTACAGCCGCCAATTAACCAAGCCGATTCCTGAGCTGGTTA 539
1440 TACCTTGAAGGATTCCTTACAGCCGCCAATTAACCAAGCCGATTCCTGAGCTGGTTA 1499
540 TTGCTGTGCGACATACAGTGGAGAGATTACAGATAAATTAATTAATTAATTAATTAAT 599
1500 TTGCTGTGCGACATACAGTGGAGAGATTACAGATAAATTAATTAATTAATTAATTAAT 1559
600 TTTCCTAGAAATAGACAAACAGTGCATAATTTGATTTCTTCTTCTTCTTCTTCTTCTTCT 659

Db
1560 TTTCCTAGAAATAGACAAACAGTGCATAATTTGATTTCTTCCATCTATGATGGCCCTC 1619
QY
660 CACCAACTCTGCCCTGATGGACAAGTCTGTGGCGTGTGACTCCCACTTGGAACTGTC 719
Db
1620 CACCAACTCTGCCCTGATGGACAAGTCTGTGGCGTGTGACTCCCACTTGGAACTGTC 1679
QY
720 ATCAAACTCTCTGACTGCTGCTGTGCTACAGATTATGCCAATTTCTTACGGGGATTTTC 779
Db
1680 ATCAAACTCTCTGACTGCTGCTGTGCTACAGATTATGCCAATTTCTTACGGGGATTTTC 1739
QY
780 TGTCTCTACACTCAATTTATGCAAGAACATCAACACTACATCTTTAACTTGTCTCTTC 839
Db
1740 TGTCTCTACACTCAATTTATGCAAGAACATCAACACTACATCTTTAACTTGTCTCTTC 1799
QY
840 TGACAGATGAGAGTTATATPAAGCAATCTTACCTAGAGCTTTTAACTTCTTAATGGGAA 899
Db
1800 TGACAGATGAGAGTTATATPAAGCAATCTTACCTAGAGCTTTTAACTTCTTAATGGGAA 1859
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900 TAACTTGCACCTAAGAGCCCACTTCCAGACCAAAATTCATAATCTTGTGGAATTTTC 959
Db
1860 TAACTTGCACCTAAGAGCCCACTTCCAGACCAAAATTCATAATCTTGTGGAATTTTC 1919
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1920 TGTCCCTCTTAAATGGATCTGTACAACTCAGAAAGGTAGAGATCAGTCAATTAATTAAC 1979
QY
1020 CAATATAACTCACTTTCTGATCCTCACTTCTGAAGTGTGATCCCGTCCAGAACT 1079
Db
1980 CAATATAACTCACTTTCTGATCCTCACTTCTGAAGTGTGATCCCGTCCAGAACT 2039
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1080 CCAGATATTGTGAAGTGTGAATGGACATAATCTACAGTGGAGATAATATACATAC 1139
Db
2040 CCAGATATTGTGAAGTGTGAATGGACATAATCTACAGTGGAGATAATATACATAC 2099
QY
1140 AGAAGATGATGTAACAAAGTCAAAATGCACTGGGCAAAATATACACACAGCTCT 1199
Db
2100 AGAAGATGATGTAACAAAGTCAAAATGCACTGGGCAAAATATACACACAGCTCT 2159
QY
1200 TTTTGAATCCAAATTCATTTGAAAGACTATACCTTGAATCACCATTATTTGATTTGAA 1259
Db
2160 TTTTGAATCCAAATTCATTTGAAAGACTATACCTTGAATCACCATTATTTGATTTGAA 2219
QY
1260 CCAAACTCTTTTGTTCAGATTAGTCTGCACTCAGATCCAAATTTGATTTGATTTG 1319
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2220 CCAAACTCTTTTGTTCAGATTAGTCTGCACTCAGATCCAAATTTGATTTGATTTG 2279
QY
1320 TGATACCTGTAGAGCTCTCCACCTCTGACTTGTGATCCCACTACCACTATATCAA 1379
Db
2280 TGATACCTGTAGAGCTCTCCACCTCTGACTTGTGATCCCACTACCACTATATCAA 2339
QY
1380 GAGTGGATGATGCGAGATGAACTTGAAGTGTATCCCTTATTTGGACACTATGGGAG 1439
Db
2340 GAGTGGATGATGCGAGATGAACTTGAAGTGTATCCCTTATTTGGACACTATGGGAG 2399
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1440 ATTCCTGATTTAAAGCTTTAAATTTTGAAGTATGAGCTCTGTGATCTGAGTGA 1499
Db
2400 ATTCCTGATTTAAAGCTTTAAATTTTGAAGTATGAGCTCTGTGATCTGAGTGA 2459
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1500 AGTTTTTGAATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1559
Db
2460 AGTTTTTGAATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2519
QY
1560 AAGCAAAACGAGACTTTCTTATTAATGGAAGAGATTCCTATTAATGAGAGCCATTCG 1619
Db
2520 AAGCAAAACGAGACTTTCTTATTAATGGAAGAGATTCCTATTAATGAGAGCCATTCG 2579
QY
1620 TCTCAAAAGGATTCGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1679
Db
2580 TCTCAAAAGGATTCGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 2639
QY
1680 AGAAACTTCCAAACAGCTTTCAACAGTGTGATCTGTTTCTTCTTCTTCTTCTTCTTCT 1739

Db 2640 AGAACTCCAAACCCGCTTCAACAGTGTGCATCTGTTTCTCTCATGGTCTAGCTCT 2699  
QY 1740 GAATGTGGTACTGTAGCGAATACAGTGTAGGCAATTTGTAAATCAACGGCGAGACTA 1799  
Db 2700 GAATGTGGTACTGTAGCGAATACAGTGTAGGCAATTTGTAAATCAACGGCGAGACTA 2759  
QY 1800 CAATATACAGAGTGTAGGCAATTTGTAAATCAACGGCGAGACTA 1859  
Db 2760 CAATATACAGAGTGTAGGCAATTTGTAAATCAACGGCGAGACTA 2819  
QY 1860 CTCAGGATGCCAAGGAATGTACTGTGGCTTACACATATATGAATAAATGAGGAA 1919  
Db 2820 CTCAGGATGCCAAGGAATGTACTGTGGCTTACACATATATGAATAAATGAGGAA 2879  
QY 1920 GGGCTGAAGTGTAGGCAATTTGTAAATCAACGGCGAGACTA 1957  
Db 2880 GGGCTGAAGTGTAGGCAATTTGTAAATCAACGGCGAGACTA 2917

## RESULT 7

US-09-907-841-189  
; Sequence 189, Application US/0907841  
; Publication No. US20020198363A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kijavlin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/907,841  
; CURRENT FILING DATE: 2001-11-20  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214

; PRIOR FILING DATE: 1999-11-29  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 189  
; LENGTH: 2917  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-907-841-189  
  
Query Match 98.9%; Score 1944.4; DB 10; Length 2917;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;  
  
QY 1 CAATAATGAGCTGTGAAGAGCTCATGCCATTGACCTCTTAATTCCTCTCTTTGGC 60  
Db 960 CAATAATGAGCTGTGAAGAGCTCATGCCATTGACCTCTTAATTCCTCTCTTTGGC 1019  
QY 61 GGA-CTGACAAATGCGGAGGCTGAAGGCAATGCAAGTGCACAGTCAGTGTAGGGGTGC 119  
Db 1020 GGAGCTGACAAATGCGGAGGCTGAAGGCAATGCAAGTGCACAGTCAGTGTAGGGGTGC 1079  
QY 120 CAATATGCGAGAGACCCACAAAGCCATCATCTGCAACTCAATCCAGTGAGAACTGCAC 179  
Db 1080 CAATATGCGAGAGACCCACAAAGCCATCATCTGCAACTCAATCCAGTGAGAACTGCAC 1139  
QY 180 CTGGACATATGAAGAGACCCAGAAACAAAGCATCAGAAATATCTTTCTATGTCCAGCT 239  
Db 1140 CTGGACATATGAAGAGACCCAGAAACAAAGCATCAGAAATATCTTTCTATGTCCAGCT 1199  
QY 240 TGATCCAGATGGAAGCTGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 299  
Db 1200 TGATCCAGATGGAAGCTGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1259  
QY 300 TGGGCTCTGCTAGGCAAGTCTGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 359  
Db 1260 TGGGCTCTGCTAGGCAAGTCTGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1319  
QY 360 ATCCAGTACATGAGCTTCAATATGAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGT 419  
Db 1320 ATCCAGTACATGAGCTTCAATATGAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGT 1379  
QY 420 TGTCTTCTACTACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 479  
Db 1380 TGTCTTCTACTACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1439  
QY 480 TACCTTGAAGAGTCTCTTACAGAGCCCAATTAACCAAGCCCAATCTCTCTCTCTCTCTCTCT 539  
Db 1440 TACCTTGAAGAGTCTCTTACAGAGCCCAATTAACCAAGCCCAATCTCTCTCTCTCTCTCTCT 1499  
QY 540 TGTCTGTGSCACATACAGTGGAGAGAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAG 599  
Db 1500 TGTCTGTGSCACATACAGTGGAGAGAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAG 1559  
QY 600 TTTCTTAGAATAGACAAACAGTGCATAATTTGATTTCTTGGCATCTATGATGCCCCCTC 659  
Db 1560 TTTCTTAGAATAGACAAACAGTGCATAATTTGATTTCTTGGCATCTATGATGCCCCCTC 1619  
QY 660 CACCAACTCTGGCTGATTTGGCAAGTGTGGGGGTGTGACTCCCACTTGGCAATGCTC 719  
Db 1620 CACCAACTCTGGCTGATTTGGCAAGTGTGGGGGTGTGACTCCCACTTGGCAATGCTC 1679  
QY 720 ATCAAACTCTGCTGCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGT 779  
Db 1680 ATCAAACTCTGCTGCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGT 1739  
QY 780 TGCTTCTTACACCTCAATTTTATGCAAAACATCAACACTACATCTTTTAACTTGTCTCTTC 839  
Db 1740 TGCTTCTTACACCTCAATTTTATGCAAAACATCAACACTACATCTTTTAACTTGTCTCTTC 1799  
QY 840 TGACAGGATGAGAGTATTTATTAAGCAAACTCTTACCTAGAGGCTTTTAACTCTAATGGGAA 899  
Db 1800 TGACAGGATGAGAGTATTTATTAAGCAAACTCTTACCTAGAGGCTTTTAACTCTAATGGGAA 1859





Query Match 98.98; Score 1944.4; DB 11; Length 2917;  
Best Local Similarity 99.98; Pred. No. 0;  
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

1 CAAAATGGAGCTTTAAGAGGCTCATGCCATTGACCCCTCTTAATTCCTCTGTTGGC 60  
960 CAAAATGGAGCTTTAAGAGGCTCATGCCATTGACCCCTCTTAATTCCTCTGTTGGC 1019

61 GGA-CTGACATGCGGAGCTGAAGCAATGCAAGCTGCACAGTCAGTCAGGSGTGC 119  
1020 GGAGTGAACATGGCGAGGCTGAAGCAATGCAAGCTGCACAGTCAGTCAGGSGTGC 1079

120 CAATATGGCAGAGCCACAAAGCCATGATCTGCAACTCAATCCCAAGTGAGAACTGCAC 179  
1080 CAATATGGCAGAGCCACAAAGCCATGATCTGCAACTCAATCCCAAGTGAGAACTGCAC 1139

180 CTGGACATAGAAGACACAAACAAAGCATCAGAAATATCTTTTCCATGTCACGCT 239  
1140 CTGGACATAGAAGACACAAACAAAGCATCAGAAATATCTTTTCCATGTCACGCT 1199

240 TGATCCAGATGGAAGCTGTGAAAGTGAAGCAATTAAGTCTTTGACGGAACCTCCAGCAA 299  
1200 TGATCCAGATGGAAGCTGTGAAAGTGAAGCAATTAAGTCTTTGACGGAACCTCCAGCAA 1259

300 TGGGCTCTGCTAGGCAAGCTGCAAGTAAGCAATGATCTGCTGTAATGGAATCATC 359  
1260 TGGGCTCTGCTAGGCAAGCTGCAAGTAAGCAATGATCTGCTGTAATGGAATCATC 1319

360 ATCCAGTACATGAGCTTTCAAAATAGTACTGACATGCAAGCAATTAAGCAAGCTGCT 419  
1320 ATCCAGTACATGAGCTTTCAAAATAGTACTGACATGCAAGCAATTAAGCAAGCTGCT 1379

420 TGTCTCTACACTCTCTCTCTTAACATCTCTAATCTGCAAGTCTGCGGCTTACCTGGA 479  
1380 TGTCTCTACACTCTCTCTCTTAACATCTCTAATCTGCAAGTCTGCGGCTTACCTGGA 1439

480 TACCTTGAAGGATCTCTACAGCCCAATTAACCAAGCCGATCTGAGCTGGCTTA 539  
1440 TACCTTGAAGGATCTCTACAGCCCAATTAACCAAGCCGATCTGAGCTGGCTTA 1499

540 TTGTGTGTCACATACAAAGTGGAGCAAGTACAAAGTAAACTTCAAAAGAT 599  
1500 TTGTGTGTCACATACAAAGTGGAGCAAGTACAAAGTAAACTTCAAAAGAT 1559

600 TTCTCTAGAAATAGCAACAGTGCAAATTTGATTTCTTGCCATCTATGATGGCCCTC 659  
1560 TTCTCTAGAAATAGCAACAGTGCAAATTTGATTTCTTGCCATCTATGATGGCCCTC 1619

660 CACCAACTCTGCTGATTTGGAACAGTCTGCGCGTGTGACTCCCACTTCAATGCTC 719  
1620 CACCAACTCTGCTGATTTGGAACAGTCTGCGCGTGTGACTCCCACTTCAATGCTC 1679

720 ATCAAACTCTGACTGCTGCTGCTACAGATTAACCAATCTTACCGGGGATTTTC 779  
1680 ATCAAACTCTGACTGCTGCTGCTACAGATTAACCAATCTTACCGGGGATTTTC 1739

780 TGCTTCTACACTCAATTTATGCAAGAAACATCAACATCTTTTAACTTGCTCTTC 839  
1740 TGCTTCTACACTCAATTTATGCAAGAAACATCAACATCTTTTAACTTGCTCTTC 1799

840 TGACAGATGAGATTAATTAAGCAAACTTACCTAGAGCTTTTAACTTAATGGGAA 899  
1800 TGACAGATGAGATTAATTAAGCAAACTTACCTAGAGCTTTTAACTTAATGGGAA 1859

900 TAACTTGCACATTAAGACCCCACTGCAAGCCCAAAATTAATCAATGCTTGGATTTTC 959  
1860 TAACTTGCACATTAAGACCCCACTGCAAGCCCAAAATTAATCAATGCTTGGATTTTC 1919

960 TGTCCCTCTTAATGATGATGTTGATCAATCAGAAAGGTAGAGATCAGTCAATTAATTAAC 1019  
1920 TGTCCCTCTTAATGATGATGTTGATCAATCAGAAAGGTAGAGATCAGTCAATTAATTAAC 1979  
1020 CAATATAATCACCTTTTCTGATCCTCACTTCTGAAGTGAATCAGGTCAGAAACAACT 1079  
1980 CAATATAATCACCTTTTCTGATCCTCACTTCTGAAGTGAATCAGGTCAGAAACAACT 2039  
1080 CCAGATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1139  
2040 CCAGATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2099  
1140 AGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1199  
2100 AGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2159  
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2160 TTTTGAATCCAAATTCATTTGAAAGACTATATGATGATGATGATGATGATGATGATGAT 2219  
1260 CCAAACTCTTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1319  
2220 CCAAACTCTTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2279  
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2280 TGATACCTGTAGAGCTCTCCACCTCTGATGATGATGATGATGATGATGATGATGATGAT 2339  
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2400 ATTCACCTTTTAAATGCTTTTAAATGCTTTTAAATGCTTTTAAATGCTTTTAAATGCTTT 2459  
1500 AGTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1559  
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2700 GAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2759  
1800 CAAATACCAAGCTGCAGAACTTAACTTAACAGTGTGATGATGATGATGATGATGATGATGAT 1859  
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1860 CTCCAGATGCCAAAGAAATGCTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1919  
2820 CTCCAGATGCCAAAGAAATGCTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2879  
1920 GGGCTTGAAGTGCACACAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1957  
2880 GGGCTTGAAGTGCACACAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2917

RESULT 9  
US-09-906-742-189  
; Sequence 189, Application US/09906742  
; Publication No. US2003003034A1



GENERAL INFORMATION:

APPLICANT: Genentech, Inc.  
 APPLICANT: Ashkenazi, Avi  
 APPLICANT: Botstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Filvaroff, Ellen  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gao, Wei-Qiang  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, A.  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, Christopher J.  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Hillan, Kenneth, J.  
 APPLICANT: Kljavin, Ivar J.  
 APPLICANT: Mather, Jennie P.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William, I.  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: 10466-14  
 CURRENT APPLICATION NUMBER: US/09/906,742  
 CURRENT FILING DATE: 2001-07-16  
 PRIOR APPLICATION NUMBER: 09/665,350  
 PRIOR FILING DATE: 2000-09-18  
 PRIOR APPLICATION NUMBER: PCT/US00/04414  
 PRIOR FILING DATE: 2000-02-22  
 PRIOR APPLICATION NUMBER: US 60/143,048  
 PRIOR FILING DATE: 1999-07-07  
 PRIOR APPLICATION NUMBER: US 60/145,698  
 PRIOR FILING DATE: 1999-07-26  
 PRIOR APPLICATION NUMBER: US 60/146,222  
 PRIOR FILING DATE: 1999-07-28  
 PRIOR APPLICATION NUMBER: PCT/US99/20594  
 PRIOR FILING DATE: 1999-09-08  
 PRIOR APPLICATION NUMBER: PCT/US99/20944  
 PRIOR FILING DATE: 1999-09-13  
 PRIOR APPLICATION NUMBER: PCT/US99/21090  
 PRIOR FILING DATE: 1999-09-15  
 PRIOR APPLICATION NUMBER: PCT/US99/21547  
 PRIOR FILING DATE: 1999-09-15  
 PRIOR APPLICATION NUMBER: PCT/US99/23089  
 PRIOR FILING DATE: 1999-10-05  
 PRIOR APPLICATION NUMBER: PCT/US99/28214  
 PRIOR FILING DATE: 1999-11-29  
 PRIOR APPLICATION NUMBER: PCT/US99/28313  
 PRIOR FILING DATE: 1999-11-30  
 PRIOR APPLICATION NUMBER: PCT/US99/28564  
 PRIOR FILING DATE: 1999-12-02  
 PRIOR APPLICATION NUMBER: PCT/US99/28565  
 PRIOR FILING DATE: 1999-12-02  
 PRIOR APPLICATION NUMBER: PCT/US99/30095  
 PRIOR FILING DATE: 1999-12-16  
 PRIOR APPLICATION NUMBER: PCT/US99/30911  
 PRIOR FILING DATE: 1999-12-20  
 PRIOR APPLICATION NUMBER: PCT/US99/30999  
 PRIOR FILING DATE: 1999-12-20  
 PRIOR APPLICATION NUMBER: PCT/US00/00219  
 PRIOR FILING DATE: 2000-01-05  
 NUMBER OF SEQ ID NOS: 423  
 SEQ ID NO 189  
 LENGTH: 2917  
 TYPE: DNA  
 ORGANISM: Homo Sapien  
 US-09-906-742-189

Query Match 98.9%; Score 1944.4; DB 11; Length 2917;  
 Best Local Similarity 99.9%; Pred. No. 0;  
 Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;  
 QY 1 CAAATGGAGCTTGTAAAGAGCTCATGCCATTGACCCCTTAATTCCTCTCTGTTGGC 60  
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 QY 960 CAAATGGAGCTTGTAAAGAGCTCATGCCATTGACCCCTTAATTCCTCTCTGTTGGC 1019  
 DB |||||  
 QY 61 GGA-CTGACAATGGGAGGCTGAAGCAATGCAAGCTCCACAGTCAGTCFAGGGGTGC 119  
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 QY 1020 GGAGCTGACCAATGGCGAGGCTGAAGCAATGCAAGCTCCACAGTCAGTCFAGGGGTGC 1079  
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 QY 1080 CAATATGGCAGACCCCAAGAGCCATGCTCCGCACTCAATCCAGTGAGAGCTGCAC 1139  
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 QY 180 CTGGACAATAGAAAGACCAAGAAACAAAGCATCAGAAATATCTTTCTATGTCAGCT 239  
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 QY 1140 CTGGACAATAGAAAGACCAAGAAACAAAGCATCAGAAATATCTTTCTATGTCAGCT 1199  
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 QY 1200 TGATCCAGATGGAAGCTGTGAAGTGAAGAAACATTAAGCTCTTGACGGAACCTCCAGCAA 1259  
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 QY 300 TGGGCTCTCTAGGCAAGCTCTGCAGTAAAGAGCACTATGTTCTCTGTTGAATCATC 359  
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 QY 1320 ATCCAGTACATGACCTTTCAATAGTTACTGACTCAGCAAGAAATCAAGAACTGCTTT 1379  
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 QY 1380 TGTCTTCTACTACTCTCTCTCCCAACATCTCTATTCACAACTGTGCGGTACCTGGA 1439  
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 QY 1500 TTGTGCTGSCACATACAAAGTGSAGAAAGATACAGATAAAGTAAACTCAAGAGAT 1559  
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 QY 1620 CACCAACTGCGCTGATTTGGACAAAGTCTGCGCGGTGACTCCCACTTGAATGCTC 1679  
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 QY 960 TGTCCCTCTTAATGGATGCTGCTACAAATCAGAAAGGTAGAGATCAGTCAATTTACAC 1019  
 DB |||||  
 QY 1920 TGTCCCTCTTAATGGATGCTGCTACAAATCAGAAAGGTAGAGATCAGTCAATTTACAC 1979  
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QY	1020	CAATATAATCACTCTTTCTGCATCCCTCAACTCTCTGAAGTGATCACCCGTCGAAACAACCT	1079
Db	1980	CAATAATAATCACTCTTTCTGCATCCCTCAACTCTCTGAAGTGATCACCCGTCGAAACAACCT	2039
QY	1080	CCAGATTATTGTGAAGTGTGAATGGCAATAAATCTACAGTGGAGATAAATATACATAAC	1139
Db	2040	CCAGATTATTGTGAAGTGTGAATGGCAATAAATCTACAGTGGAGATAAATATACATAAC	2099
QY	1140	AGAAGATGATGTATACAAAATGCATGGCGCAAAATATACACACAGCATGGCTCT	1199
Db	2100	AGAAGATGATGTATACAAAATGCATGGCGCAAAATATACACACAGCATGGCTCT	2159
QY	1200	TTTTGAATCCCAATTCATTTGAAAAGACTATCTTGAAATCCACATATATTGTGGATTGGAA	1259
Db	2160	TTTTGAATCCCAATTCATTTGAAAAGACTATCTTGAAATCCACATATATTGTGGATTGGAA	2219
QY	1260	CCAAACTCTTTTGTTCAGTTAGTCGCACACCTCAGATCCAAAATTTGGTGGTGTTCCT	1319
Db	2220	CCAAACTCTTTTGTTCAGTTAGTCGCACACCTCAGATCCAAAATTTGGTGGTGTTCCT	2279
QY	1320	TGATACCTGTAGAGCCTCTCCACCTCGACCTTGCATCTCCAACTACAGACTAATCAAA	1379
Db	2280	TEATACCTGTAGAGCCTCTCCACCTCGACCTTGCATCTCCAACTACAGACTAATCAAA	2339
QY	1380	GAGTGGATGTAGTCAGATGAAACTTGAAGTGTATCCCTTATTTGGACACTATGGAG	1439
Db	2340	GAGTGGATGTAGTCAGATGAAACTTGAAGTGTATCCCTTATTTGGACACTATGGAG	2399
QY	1440	ATTTCCAGTTTAAATGCTTTAAATCTGTGAAAGTAGTAGCTGTCTGTATCTGCATGTPAA	1499
Db	2400	ATTTCCAGTTTAAATGCTTTAAATCTGTGAAAGTAGTAGCTGTCTGTATCTGCATGTPAA	2459
QY	1500	AGTTTTCATATGTATAGCAGTACCACCACTCTCGCTGCAATCAAGTTGTGTCTCCAG	1559
Db	2460	AGTTTTCATATGTATAGCAGTACCACCACTCTCGCTGCAATCAAGTTGTGTCTCCAG	2519
QY	1560	AAGCAATACGACAGACTTTCTTCATATAAATGGAAAAACAGATTCCATCATAGGACCATTCG	1619
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QY	1620	TCTGAAAAGGGATGCAAGTGCAGATTCAGGATTCAGCATGAACACACATCGCGGA	1679
Db	2580	TCTGAAAAGGGATGCAAGTGCAGATTCAGGATTCAGCATGAACACACATCGCGGA	2639
QY	1680	AGAAACTCCAAACACAGCCTTTCAACAGTGTGCATGTGTTCCTTCATGGTCTTACGTCT	1739
Db	2640	AGAAACTCCAAACACAGCCTTTCAACAGTGTGCATGTGTTCCTTCATGGTCTTACGTCT	2699
QY	1740	GAATGTGGTGACCTAGCGCAACATCAAGTGTGGCATTTTGTAAATCAACGGCGCAGACTA	1799
Db	2700	GAATGTGGTGACCTAGCGCAACATCAAGTGTGGCATTTTGTAAATCAACGGCGCAGACTA	2759
QY	1800	CAATATCCAGACTTCAGAACTATTAACTAACAGGTCCAAACCCCTAAGTGTAGACATGTCT	1859
Db	2760	CAATATCCAGACTTCAGAACTATTAACTAACAGGTCCAAACCCCTAAGTGTAGACATGTCT	2819
QY	1860	CTCCAGGATGCCAAAGAAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA	1919
Db	2820	CTCCAGGATGCCAAAGAAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA	2879
QY	1920	GGGCTCGAAAGTGACACACAGCGCTGCATGTCAAAAAA	1957
Db	2880	GGGCTCGAAAGTGACACACAGCGCTGCATGTCAAAAAA	2917

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/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan L.
/ APPLICANT: Ferrars, Napoleone
/ APPLICANT: Filvaroff, Ellen
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Gerber, Hanspeter
/ APPLICANT: Geritsen, Mary E.
/ APPLICANT: Goddard, A.
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth, J.
/ APPLICANT: Kljavin, Ivar J.
/ APPLICANT: Mather, Jennie P.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Williams, P. Mickey
/ APPLICANT: Wood, William, I.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ TITLE OF INVENTION: Acids Encoding the Same
/ FILE REFERENCE: 10466-14
/ CURRENT APPLICATION NUMBER: US/09/906,838
/ CURRENT FILING DATE: 2001-07-16
/ PRIOR APPLICATION NUMBER: 09/665,350
/ PRIOR FILING DATE: 2000-09-18
/ PRIOR APPLICATION NUMBER: PCT/US00/04414
/ PRIOR FILING DATE: 2000-02-22
/ PRIOR APPLICATION NUMBER: US 60/143,048
/ PRIOR FILING DATE: 1999-07-07
/ PRIOR APPLICATION NUMBER: US 60/145,698
/ PRIOR FILING DATE: 1999-07-26
/ PRIOR APPLICATION NUMBER: US 60/146,222
/ PRIOR FILING DATE: 1999-07-28
/ PRIOR APPLICATION NUMBER: PCT/US99/20594
/ PRIOR FILING DATE: 1999-09-08
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/ PRIOR APPLICATION NUMBER: PCT/US99/28564
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/ PRIOR FILING DATE: 1999-12-20
/ PRIOR APPLICATION NUMBER: PCT/US99/30999
/ PRIOR FILING DATE: 1999-12-20
/ PRIOR APPLICATION NUMBER: PCT/US00/00219
/ PRIOR FILING DATE: 2000-01-05
/ NUMBER OF SEQ ID NOS: 423
/ SEQ ID NO 189
/ LENGTH: 2917
/ TYPE: DNA
/ ORGANISM: Homo Sapien
US-09-906-838-189

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## RESULT 10

RESULT 10  
US-09-906-838-189  
; Sequence 189, Application US/090906838  
; Publication No. US20030027143A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David

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QY 1860 THACTTGAACATAAGACCCCACTTGCAGACCAATTAATCAATGTTGTGGATTTTC 1919  
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QY 1920 GGGCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1957  
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QY 2880 GGGCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2917  
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RESULT 11  
US-09-907-613-189  
; Sequence 189, Application US/09907613  
; Publication No. US20030027145A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan I.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen

```

; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: KJavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,613
; FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
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; PRIOR APPLICATION NUMBER: PCT/US99/21547
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; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-613-189

Query Match 98.9%; Score 1944.4; DB 11; Length 2917;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 CAATATGGAGCTGTGAAGAGGCTCATGCCATTGACCCCTTAATTCCTCCTGTTGGC 60
Db 960 CAATATGGAGCTGTGAAGAGGCTCATGCCATTGACCCCTTAATTCCTCCTGTTGGC 1019
QY 61 6GA-CTGCAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCFAGGGGCTC 119

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Db 1080 CAATATGGCAGAGACCCACAAAGCCATGATCTGCAACTCAATCCAGTGAGAACTGCAC 1139
QY 180 CTGGCAATATGAAAGACCCAGAAACAAAGCATCAGAAATATCTTTTCTATGTCAGCT 239
Db 1140 CTGGCAATATGAAAGACCCAGAAACAAAGCATCAGAAATATCTTTTCTATGTCAGCT 1199
QY 240 TGATCCAGATGGAAGCTGTGAAAGTGAAACATTAAGAGTCTTTGACGGAACTCCAGCA 299
Db 1200 TGATCCAGATGGAAGCTGTGAAAGTGAAACATTAAGAGTCTTTGACGGAACTCCAGCA 1259
QY 300 TGGGCTCTGCTAGGCAAGCTGCGAGTAAAGCAAGCAATGTTCTGTTATTTGAATCATC 359
Db 1260 TGGGCTCTGCTAGGCAAGCTGCGAGTAAAGCAAGCAATGTTCTGTTATTTGAATCATC 1319
QY 360 ATCCAGTACATGACGTTTCAATAGTTACTGACTCAGCAAGAAATCAAGAACTGCTT 419
Db 1320 ATCCAGTACATGACGTTTCAATAGTTACTGACTCAGCAAGAAATCAAGAACTGCTT 1379
QY 420 TGTCTTCTACTACTTCTCTCTCTTAACTCTCTATTCCTGTTATTTGAATCATC 479
Db 1380 TGTCTTCTACTACTTCTCTCTCTTAACTCTCTATTCCTGTTATTTGAATCATC 1439
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Db 1440 TACCTTGAAGAGATCCTTACAGAGCCCAATTAACCAAGCCGATCCTGAGCTGGCTTA 1499
QY 540 TTGTGTGGCAGATACAAAGTGAGAAAGATTAAGATTAAGATAAACTTCAAGAGAT 599
Db 1500 TTGTGTGGCAGATACAAAGTGAGAAAGATTAAGATTAAGATAAACTTCAAGAGAT 1559
QY 600 TTTCTAGAAATAGCAAAAGCTGCAAAATTTGATTTCTGCCATCTATGATGGCCCTC 659
Db 1560 TTTCTAGAAATAGCAAAAGCTGCAAAATTTGATTTCTGCCATCTATGATGGCCCTC 1619
QY 660 CACCAACTCTGCTGATTTGCAAGCTGTGGCGGTGACTCCCACTTGAATCTGTC 719
Db 1620 CACCAACTCTGCTGATTTGCAAGCTGTGGCGGTGACTCCCACTTGAATCTGTC 1679
QY 720 ATCAAACTCTGACTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 779
Db 1680 ATCAAACTCTGACTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1739
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QY 840 TGACAGGATGAGAGTTATTAAGCAAAATCTTACCTAGAGGCTTTAACTCTAAATGGAA 899
Db 1800 TGACAGGATGAGAGTTATTAAGCAAAATCTTACCTAGAGGCTTTAACTCTAAATGGAA 1859
QY 900 TAACCTGCACTTAAGAGACCCACTTGCAGACCAAAATTAATCAAACTTGTGGAATTTTC 959
Db 1860 TAACCTGCACTTAAGAGACCCACTTGCAGACCAAAATTAATCAAACTTGTGGAATTTTC 1919
QY 960 TGTCCCTCTTAATGATGTGGTGTGATGAGAGGATGAGAGTCAAGTCAATTAATTAAC 1019
Db 1920 TGTCCCTCTTAATGATGTGGTGTGATGAGAGGATGAGAGTCAAGTCAATTAATTAAC 1979
QY 1020 CAATATAATCACTTTTCTGATCTCTCAACTTCTGAAGTATACCCCGTCAGAAACAAT 1079
Db 1980 CAATATAATCACTTTTCTGATCTCTCAACTTCTGAAGTATACCCCGTCAGAAACAAT 2039
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Db 2040 CCAGATTTATGAGAGTGTGAATGGAGATATTTCTACAGTGGAGATATATATATAC 2099
QY 1140 AGAAGTATGATTAATACAAAGTCAAAATGCAGTGGGCAATTAATACACAGCATGGCT 1199

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Db 2100 AGAAGATGATGTAATACAAAGTCAAAAATGACACTGGGCAATATACACACAGTGGCTCT 2159  
 QY 1200 TTTTGAATCCAAATTCATTTGAAAAGACATATCTGTGATCAACCATATATATGTTGGATTTGAA 1259  
 Db 2160 TTTTGAATCCAAATTCATTTGAAAAGACATATCTGTGATCAACCATATATATGTTGGATTTGAA 2219  
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 Db 2220 CCAAACTCTTTTGTTCAGATTAGTCTGCACACCTCAGTCCCAAAATTTGGTGGTTTCT 2279  
 QY 1320 TGATACCTGTAGAGCTCTCCACCTCTGACTTTGGCATCTCCAACTACGACCTCAATCAA 1379  
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 QY 1380 GAGTGGATGTAGAGATGAACCTTTGAAGGTGTATCCCTTATTTGGACACATATGGGAG 1439  
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 QY 1500 AGTTTGTATGTAGATGAGATGACACACCTCTGCTGCAATCAAGTGTGTCTCCAG 1559  
 Db 2460 AGTTTGTATGTAGATGAGATGACACACCTCTGCTGCAATCAAGTGTGTCTCCAG 2519  
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 Db 2520 AAGCAAAAGGATGCAATTTCTCATATAATGAAACAGATTCATCATAGGACCATTCG 2579  
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 Db 2580 TCTGAAAAGGATGCAATTTCTCATATAATGAAACAGATTCATCATAGGACCATTCG 2639  
 QY 1680 AGAACTCCAAACAGCTTTTCAACAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1739  
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 Db 2700 GAATGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2759  
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 QY 1920 GGGCTGAAATGACACACAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1957  
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RESULT 12

US-09-907-942-189  
 ; Sequence 189, Application US/09907942  
 ; Publication No. US20030027146A1

GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.  
 ; APPLICANT: Ashkenazi, Avi  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerriksen, Mary E.  
 ; APPLICANT: Goddard, A.  
 ; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Hillan, Kenneth, J.  
 ; APPLICANT: Kijavlin, Ivar J.  
 ; APPLICANT: Mather, Jennie P.  
 ; APPLICANT: Pau, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William, I.  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: 10466-14  
 ; CURRENT APPLICATION NUMBER: US/09/907,942  
 ; CURRENT FILING DATE: 2002-01-22  
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414  
 ; PRIOR FILING DATE: 2000-02-22  
 ; PRIOR APPLICATION NUMBER: US 60/143,048  
 ; PRIOR FILING DATE: 1999-07-07  
 ; PRIOR APPLICATION NUMBER: US 60/145,698  
 ; PRIOR FILING DATE: 1999-07-26  
 ; PRIOR APPLICATION NUMBER: US 60/146,222  
 ; PRIOR FILING DATE: 1999-07-28  
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 ; PRIOR APPLICATION NUMBER: PCT/US99/28564  
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 ; PRIOR FILING DATE: 1999-12-20  
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219  
 ; PRIOR FILING DATE: 2000-01-05  
 ; NUMBER OF SEQ ID NOS: 423  
 ; SEQ ID NO 189  
 ; LENGTH: 2917  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-907-942-189

Query Match 98.9%; Score 1944.4; DB 11; Length 2917;  
 Best Local Similarity 99.9%; Pred. NO. 0;  
 Matches 1956; Conservative 1; Indels 1; Gaps 1;  
 QY 1 CAAATGAGCTTGTGAAGAGCTCATGCCATTCACCTTAAATTCCTCTGTTTGGC 60  
 Db 960 CAAATGAGCTTGTGAAGAGCTCATGCCATTCACCTTAAATTCCTCTGTTTGGC 1019  
 QY 61 GCA-CTGACATGCGGAGCTGAAGCAATGCAAGCTGCACAGTCAGTCTAGGGGTGC 119  
 Db 1020 GGAGCTGACATGCGGAGCTGAAGCAATGCAAGCTGCACAGTCAGTCTAGGGGTGC 1079  
 QY 120 CAAATGCGAGAGACCCCAAAAGCCATCATCTCTGCAACTCAATCCAGTGAGAACTGCAC 179  
 Db 1080 CAAATGCGAGAGACCCCAAAAGCCATCATCTCTGCAACTCAATCCAGTGAGAACTGCAC 1139



APPLICANT: Peoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/904,859  
CURRENT FILING DATE: 2001-07-12  
PRIOR APPLICATION NUMBER: 09/665,350  
PRIOR FILING DATE: 2000-09-18  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
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PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US00/00219  
PRIOR FILING DATE: 2000-01-05  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 189  
LENGTH: 2917  
TYPE: DNA  
ORGANISM: Homo Sapien  
US-09-904-859-189

Query Match 98.9%; Score 1944.4; DB 11; Length 2917;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 CAAATGGAGCTGTGTAAGAAGGCTCATGCGCATGACCTCTTAATTCCTCTGTTGGC 60  
DB 960 CAAATGGAGCTGTGTAAGAAGGCTCATGCGCATGACCTCTTAATTCCTCTGTTGGC 1019

QY 61 GGA-CYGCACATGGCGGAGGCTGAAGGCAATGCAATCCCACTGAGAGCTGCAC 119  
DB 1020 GGAGCTGACAAATGGCGGAGGCTGAAGGCAATGCAATCCCACTGAGAGCTGCAC 1079

QY 120 CAATATGGCAGAGACCCACAAAGCATGATCTGCAATCAATCCCACTGAGAGCTGCAC 179  
DB 1080 CAATATGGCAGAGACCCACAAAGCATGATCTGCAATCAATCCCACTGAGAGCTGCAC 1139

QY 180 CTGGACATAGAAAGACCAAAACAAAGCATGAGATTCCTTTCTATGTCAGCT 239  
DB 1140 CTGGACATAGAAAGACCAAAACAAAGCATGAGATTCCTTTCTATGTCAGCT 1199

QY 240 TGAATCCAGATGGAAGCTGTGAAGTGAAAACATTAAGTCTTTGACGGAACCTCCAGCAA 299  
DB 1200 TGAATCCAGATGGAAGCTGTGAAGTGAAAACATTAAGTCTTTGACGGAACCTCCAGCAA 1259

QY 300 TGGGCTCTCTAGGCAAGTCTGCAGTAAAGAGTCTGTTCCCTGATTTGAATCATC 359  
DB 1260 TGGGCTCTCTAGGCAAGTCTGCAGTAAAGAGTCTGTTCCCTGATTTGAATCATC 1319

QY 360 ATCCAGTACATGACCTTTCAATAGTACTGAGTCTCAGCAAGATTCAAAGAACTGCTT 419  
DB 1320 ATCCAGTACATGACCTTTCAATAGTACTGAGTCTCAGCAAGATTCAAAGAACTGCTT 1379

QY 420 TGTCTTCTACTACTTCTCTCTTCAACATCTATTTCCAAACTGTGCGGTACTGGA 479  
DB 1380 TGTCTTCTACTACTTCTCTCTTCAACATCTATTTCCAAACTGTGCGGTACTGGA 1439

QY 480 TACCTTGAAGGATCTTCCACAGCCCCCAATTAACCCAAAGCCGCTCTGAGCTGGCTTA 539  
DB 1440 TACCTTGAAGGATCTTCCACAGCCCCCAATTAACCCAAAGCCGCTCTGAGCTGGCTTA 1499

QY 540 TTGTGTGTGGCACAATACAAAGTGGAGAAAGATTAAGATAAAACTAAACTTCAAGAGAT 599  
DB 1500 TTGTGTGTGGCACAATACAAAGTGGAGAAAGATTAAGATAAAACTAAACTTCAAGAGAT 1559

QY 600 TTTCTTAGAATAGACAAACAGTGCAAAATTTGATTTTCTTGCCATCTATGATGGCCCTC 659  
DB 1560 TTTCTTAGAATAGACAAACAGTGCAAAATTTGATTTTCTTGCCATCTATGATGGCCCTC 1619

QY 660 CACCAACTCTGGCTGATTTGGGCAAGTCTGTGGCCGTGAGTCTCCACCTTCGAATGCTC 719  
DB 1620 CACCAACTCTGGCTGATTTGGGCAAGTCTGTGGCCGTGAGTCTCCACCTTCGAATGCTC 1679

QY 720 ATCAAACTCTGACTGTCTGTGTCTACAGATATGCAATTTCTTACCCGGGATTTTC 779  
DB 1680 ATCAAACTCTGACTGTCTGTGTCTACAGATATGCAATTTCTTACCCGGGATTTTC 1739

QY 780 TGTCTTCTACACCTCAATTTATGCAAGAAACATCAACACTTAACTTCTCTCTC 839  
DB 1740 TGTCTTCTACACCTCAATTTATGCAAGAAACATCAACACTTAACTTCTCTCTC 1799

QY 840 TGACAGGATGAGAGTTATTAAGCAAAATCTACTAGAGGCTTTAACTCTAATGGGAA 899  
DB 1800 TGACAGGATGAGAGTTATTAAGCAAAATCTACTAGAGGCTTTAACTCTAATGGGAA 1859

QY 900 TAACTTGCACTAAAGACCCCAACTTTGAGAGACCAAAATTAATCAATTTGTGGAATTTTC 959  
DB 1860 TAACTTGCACTAAAGACCCCAACTTTGAGAGACCAAAATTAATCAATTTGTGGAATTTTC 1919

QY 960 TGTCCCTCTTAATGGATGGGTACATCAGAAAGGTGAGAGATCAGTCAATTTACTTAC 1019  
DB 1920 TGTCCCTCTTAATGGATGGGTACATCAGAAAGGTGAGAGATCAGTCAATTTACTTAC 1979

QY 1020 CAATATATACCTTTCTGATCTCTCAACTTCTGAAGTGTATCACCCTGACCGTCAAGAACT 1079  
DB 1980 CAATATATACCTTTCTGATCTCTCAACTTCTGAAGTGTATCACCCTGACCGTCAAGAACT 2039

QY 1080 CCAGATTTATGTAAGTGAATGGGACATAATTTCTACAGTGGAGATAATATACATAAC 1139  
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QY 1140 AGNAGATGATGATACAAAGTCAAAATGCGCAATGCGGCAATATACACCATGGCTCT 1199  
DB 2100 AGNAGATGATGATACAAAGTCAAAATGCGCAATGCGGCAATATACACCATGGCTCT 2159

QY 1200 TTTTGAATCCCAATTTGAAAAGACTATCTTGAATCACCATATTAATGTTGGATTTGAA 1259  
DB 2160 TTTTGAATCCCAATTTGAAAAGACTATCTTGAATCACCATATTAATGTTGGATTTGAA 2219

QY 1260 CCAAACTCTTTTGTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTCTCT 1319  
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; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
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; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-09-904-820-189

Query Match      98.9%; Score 1944.4; DB 11; Length 2917;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY      1 CAAAATGGAGCTGTGAAGAAGGCTCATGCCATTGACCCCTCTTAATTCCTCCCGTTGGC 60
DB      960 CAAAATGGAGCTGTGAAGAAGGCTCATGCCATTGACCCCTCTTAATTCCTCCCGTTGGC 1019

QY      61 GGA-CTGACAAATGGCGGAGGCTGAAGCAATGCAAGCTGCAAGCTAGCTAGCTAGGGGGTGC 119
DB      1020 GGAAGCTGCAATGGCGGAGGCTGAAGCAATGCAAGCTGCAAGCTAGCTAGCTAGGGGGTGC 1079

QY      120 CAATATGGCAGAGCCCAAGCAAGCCATGCTGCAACTCAATCCGACTGAGCACTGCAC 179
DB      1080 CAATATGGCAGAGCCCAAGCAAGCCATGCTGCAACTCAATCCGACTGAGCACTGCAC 1139

QY      180 CTGACAAATAGAAGCAGAAAACAAAAGCATCAGAAATATCTTTCCCTATGTCAGCT 239
DB      1140 CTGACAAATAGAAGCAGAAAACAAAAGCATCAGAAATATCTTTCCCTATGTCAGCT 1199

QY      240 TGATCCAGATGGAGCTGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 299
DB      1200 TGATCCAGATGGAGCTGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1259

QY      300 TGGGCCCTCTCTAGGCGAAGCTGCAAGTAAAGCAATATGTCCTGATTTGAATCATC 359
DB      1260 TGGGCCCTCTCTAGGCGAAGCTGCAAGTAAAGCAATATGTCCTGATTTGAATCATC 1319

QY      360 ATCCAGTACATTGACGTTTCAAATAGTACTGACTCAGCAAGAANTCAAAGAACTGCTTT 419
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DB      1320 ATCCAGTACATTGACGTTTCAAATAGTACTGACTCAGCAAGAANTCAAAGAACTGCTTT 1379
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DB      1380 TGTCTTCTACTACTCTCTCTCCCTAAACATCTCTATTCCAAACTGTGGCGGTACTACCTGGA 1439
QY      480 TACCTTGAAGGATPCTTCCACAGCCCAATACCAGCCCAATACCAGCCCAATACCAGCCCAATACCAG 539
DB      1440 TACCTTGAAGGATPCTTCCACAGCCCAATACCAGCCCAATACCAGCCCAATACCAGCCCAATACCAG 1499
QY      540 TTTGTGTGGCAGATCAAGAGTGGAGAGATTAACAGATAAAGTAAACTTCAAGAGAT 599
DB      1500 TTTGTGTGGCAGATCAAGAGTGGAGAGATTAACAGATAAAGTAAACTTCAAGAGAT 1559
QY      600 TTTCTAGAAATAGACAAACAGTGCATAATTTGATTTCTTGGCCATCTATGATGCGCCCTC 659
DB      1560 TTTCTAGAAATAGACAAACAGTGCATAATTTGATTTCTTGGCCATCTATGATGCGCCCTC 1619
QY      660 CACCAACTCTGGCTGATTTGGCAAGTCTGTGGCCGCTGCTGCCCACTCCCACTTCGAATCGTC 719
DB      1620 CACCAACTCTGGCTGATTTGGCAAGTCTGTGGCCGCTGCTGCCCACTCCCACTTCGAATCGTC 1679
QY      720 ATCAAACTCTGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 779
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DB      1740 TGCTTCTTACACTCAATTTATGCAAGAAACATCAACACTACATCTTTAACTTCTCTTCT 1799
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DB      1800 TGACAGGATGAGAGTTATTAAGCAAACTCTTACAGAGGCTTTTAACTTCTTAACTTCTTCT 1859
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QY      1140 AGAAGATGATTAATAAAGTCAAAATGCACTGGGCAAAATATACACACGATGGCTCT 1199
DB      2100 AGAAGATGATTAATAAAGTCAAAATGCACTGGGCAAAATATACACACGATGGCTCT 2159
QY      1200 TTTTGAATCCAAATTCATTTGAAAAGACTATCTTGAATCACCATAATATGTTGGATTTGAA 1259
DB      2160 TTTTGAATCCAAATTCATTTGAAAAGACTATCTTGAATCACCATAATATGTTGGATTTGAA 2219
QY      1260 CCAAACTCTTTTGTTCAGTGTGTCACACCTCAGATCCAAATTTGGTGGTGTCT 1319
DB      2220 CCAAACTCTTTTGTTCAGTGTGTCACACCTCAGATCCAAATTTGGTGGTGTCT 2279
QY      1320 TGATACCTGTAGAGCTCTCCACCTCTGACTTTGCAATCTCAACCTAGACCTTAATCAA 1379
DB      2280 TGATACCTGTAGAGCTCTCCACCTCTGACTTTGCAATCTCAACCTAGACCTTAATCAA 2339
QY      1380 GAGTGGATGATTCAGATGAAACTTGAAGTGTATCCCTTATTTGGACACTATGGAG 1439
DB      2340 GAGTGGATGATTCAGATGAAACTTGAAGTGTATCCCTTATTTGGACACTATGGAG 2399
QY      1440 ATTCCAGTTAATCCCTTTAAATTTCTTGAGAAGTATGAGCTGTGCTATCTGCAAGTAA 1499
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Db 2400 ATTCCAGTTTAATGCCCTTTAAATTTCTTCAGAAATGAGAGCTCTGTGTATCTGCAAGTCTAA 2459  
QY 1500 AGTTTTGATATGATAGCAGTGACCAACAGTCTCGGTGCAATCAAGGTTGTGTCTCCAG 1559  
|||||  
Db 2460 AGTTTTGATATGATAGCAGTGACCAACAGTCTCGGTGCAATCAAGGTTGTGTCTCCAG 2519  
QY 1560 AAGCAACGAGACATTTCTCATATAAATGGAACAGATTCATCATAGGACCCATTCG 1619  
|||||  
Db 2520 AAGCAACGAGACATTTCTCATATAAATGGAACAGATTCATCATAGGACCCATTCG 2579  
QY 1620 TCTGAAAAGGATCGAAGTGCAAGTGGCAATTCAGGATTTTCAGCATGAAACACATGCGGA 1679  
|||||  
Db 2580 TCTGAAAAGGATCGAAGTGCAAGTGGCAATTCAGGATTTTCAGCATGAAACACATGCGGA 2639  
QY 1680 AGAAACTCCAAACAGCCTTTCAACAGTGTGCATCTCTTTTCCTCATGSGTTCTAGCTCT 1739  
|||||  
Db 2640 AGAAACTCCAAACAGCCTTTCAACAGTGTGCATCTCTTTTCCTCATGSGTTCTAGCTCT 2699  
QY 1740 GAATGTGTGACTGTAGCGACATCACAGTGAGGCAATTTTGTAAATCAACGGGAGACTA 1799  
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Db 2700 GAATGTGTGACTGTAGCGACATCACAGTGAGGCAATTTTGTAAATCAACGGGAGACTA 2759  
QY 1800 CAAATACCAGAGCTGCAGAACTATTAACTAACAGGTCCAAACCTTAAGTGAACATGTTT 1859  
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Db 2760 CAAATACCAGAGCTGCAGAACTATTAACTAACAGGTCCAAACCTTAAGTGAACATGTTT 2819  
QY 1860 CTCCAGGATGCCAAAGAAATGCTACCTCGTGGCTACACATATTATGAATTAATGAGGAA 1919  
|||||  
Db 2820 CTCCAGGATGCCAAAGAAATGCTACCTCGTGGCTACACATATTATGAATTAATGAGGAA 2879  
QY 1920 GGGCCTGAAAGTGACACACAGGCGCTGCATGTCAAAAAA 1957  
|||||  
Db 2880 GGGCCTGAAAGTGACACACAGGCGCTGCATGTCAAAAAA 2917  
|||||

Search completed: October 15, 2003, 14:51:26  
Job time : 393.226 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 15, 2003, 11:16:43 ; Search time 27 Seconds  
(without alignments)  
916.735 Million cell updates/sec

Title: US-09-864-711-14  
Perfect score: 3064  
Sequence: 1 MAEAGNASCVTSLGGANMA.....TVRHFYNQADYKYLQNY 585

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents.AA.\*  
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2: /cgn2.6/ptodata/2/iaa/5B\_COMB.pep.\*  
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4: /cgn2.6/ptodata/2/iaa/6B\_COMB.pep.\*  
5: /cgn2.6/ptodata/2/iaa/PCTUS\_COMB.pep.\*  
6: /cgn2.6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	842	27.5	1290	1 US-08-470-350B-2	Sequence 2, Appli
2	837	27.3	1785	4 US-09-341-587-3	Sequence 3, Appli
3	470.5	15.4	666	4 US-09-341-587-1	Sequence 1, Appli
4	297.5	9.7	3223	4 US-09-341-461-2	Sequence 2, Appli
5	293	9.6	1013	2 US-08-866-650-3	Sequence 3, Appli
6	293	9.6	1013	2 US-09-021-287-3	Sequence 3, Appli
7	293	9.6	1013	3 US-09-240-473-3	Sequence 3, Appli
8	289	9.4	713	1 US-08-453-472-6	Sequence 6, Appli
9	289	9.4	713	1 US-08-038-948-7	Sequence 7, Appli
10	289	9.4	713	1 US-08-038-948-8	Sequence 8, Appli
11	289	9.4	713	1 US-08-038-948-10	Sequence 10, Appli
12	289	9.4	713	1 US-08-453-952-6	Sequence 6, Appli
13	289	9.4	713	2 US-08-862-903-6	Sequence 6, Appli
14	288	9.4	591	3 US-08-991-408-4	Sequence 4, Appli
15	288	9.4	591	4 US-09-432-473-4	Sequence 5, Appli
16	288	9.4	1013	2 US-08-866-650-5	Sequence 4, Appli
17	288	9.4	1013	2 US-09-021-287-5	Sequence 5, Appli
18	288	9.4	1013	3 US-08-991-408-2	Sequence 2, Appli
19	288	9.4	1013	3 US-09-240-473-5	Sequence 5, Appli
20	288	9.4	1013	4 US-09-432-473-2	Sequence 2, Appli
21	288	9.4	1013	4 US-09-285-385C-20	Sequence 20, Appli
22	284	9.3	1012	4 US-09-285-385C-4	Sequence 4, Appli
23	283	9.2	1015	4 US-09-285-385C-2	Sequence 2, Appli
24	281.5	9.2	449	2 US-08-839-008-2	Sequence 2, Appli
25	281.5	9.2	449	2 US-08-839-008-9	Sequence 9, Appli
26	279.5	9.1	401	2 US-08-839-008-5	Sequence 5, Appli
27	279.5	9.1	468	2 US-08-839-008-7	Sequence 7, Appli

28	279.5	9.1	458	3 US-09-032-523-8	Sequence 8, Appli
29	279	9.1	415	3 US-09-032-523-2	Sequence 2, Appli
30	273.5	8.9	788	1 US-08-572-223-1	Sequence 1, Appli
31	273.5	8.9	986	4 US-09-285-385C-19	Sequence 19, Appli
32	272	8.9	730	3 US-08-872-757-2	Sequence 2, Appli
33	272	8.9	730	4 US-09-850-048A-2	Sequence 2, Appli
34	266.5	8.7	745	1 US-08-453-472-5	Sequence 5, Appli
35	266.5	8.7	745	1 US-08-038-948-9	Sequence 9, Appli
36	266.5	8.7	745	1 US-08-453-952-5	Sequence 5, Appli
37	266.5	8.7	745	2 US-08-484-993B-43	Sequence 43, Appli
38	266.5	8.7	745	2 US-08-862-903-5	Sequence 5, Appli
39	266.5	8.7	745	2 US-08-484-158B-43	Sequence 43, Appli
40	266.5	8.7	745	2 US-08-484-596A-43	Sequence 43, Appli
41	266.5	8.7	745	2 US-08-480-150A-43	Sequence 43, Appli
42	266.5	8.7	745	3 US-08-458-731-43	Sequence 43, Appli
43	266.5	8.7	745	3 US-08-149-223A-43	Sequence 43, Appli
44	252.5	8.2	909	3 US-08-936-135-18	Sequence 18, Appli
45	252.5	8.2	926	3 US-08-936-135-20	Sequence 20, Appli

ALIGNMENTS

RESULT 1  
US-08-470-350B-2  
; Sequence 2, Application US/08470350B  
; Patent No. 5684126  
; GENERAL INFORMATION:  
; APPLICANT: Li, Xiao  
; APPLICANT: Snyder, Solomon H  
; TITLE OF INVENTION: Ebnerin: A Secreted von Ebner's Gland  
; TITLE OF INVENTION: Protein Associated with Taste Buds  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Banner & Witcoff, Ltd.  
; STREET: 1001 G Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20001  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/470,350B  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Wolfe, Susan A  
; REGISTRATION NUMBER: 33,568  
; REFERENCE/DOCKET NUMBER: 01107.48790  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-508-9100  
; TELEFAX: 202-508-9299  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1290 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-470-350B-2

Query Match 27.5%; Score 842; DB 1; Length 1290;  
Best Local Similarity 29.3%; Pred. No. 1.4e-72;  
Matches 200; Conservative 125; Mismatches 191; Indels 166; Gaps 16;

QY 36 CWTFTIERPENSIRLIESYVOLDPGSCESRNKIKVGTSSNGPLLGQVCS----- 86  
DB 609 CLKWIFVPMRNVTVFTDVL--EGGCMYDILGDPGYNSLIARVCDGSGNSTST 666  
QY 87 -----KNDY-----VPVFESSSTLTFQIVTDSARIQ 113

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Db 667 QNFMSVVIIDGQSVTRGFQADYISTIRSTPTPTFTPLTIGNDSSLVLRVNGNRC 726
QY 114 RTVFVY-
Db 727 GRVEILYRGSWPCADDSWDINDANVVCRLGCGSALSAPGNAMFGGSLVLVDVSCS 786
QY 121 -----YFSPNISPCGGYLDITL 140
Db 787 GYEGHLNCRHPGLVHNCRHVEDAGVICSPLDPTSPGFWMTSPFFVNTCGGFTLGLS 846
QY 141 GSFTSPNPKPHPELAYCWHIQQEKDYKIKLNFKEIFLEIDKOCKDFDLAIYDGPSTNSGLIGQVGRVTP 200
Db 847 GQFSSPYPGSYNNARCWLNEVPNNRVTVFVROV--QLEGCCNDYIEFDGPHSS 904
QY 201 GLIGQVGRVTPFESSNSLTIVLSTDYANSTRGFSASYSIYAENINTSLTSSDRM 260
Db 905 FLIARVCDGANGSFTSTSNFMSVRFTTDSHSTRGRFRADYISDF--DNNTNLLCLSNHM 962
QY 261 RVILSKYLEAFNSGNLQK---DPTCRPKLS-NVVFSPVLNGCGTIRKVEDQST 315
Db 963 RASVRSYLSQMGYSSEDLVPGWNVSYQCPQITQREVIFITPFGGTTKQADNETIN 1022
QY 316 YTNITTSASTSEVITROKQLIIVKCEMGNHSTVEIITTEDDVIOSQNALGKNTSM 375
Db 1023 YSNEL--KAAVSNGLIKRKOHLHVSKMLQNTWMTYIINNTEVEIQEYQVGNFDVNI 1080
QY 376 ALFESNFEKTIIESPYVDLNOTLFFVOVSLHTSDPNLVFLDTCRASP-TSDFASPTD 434
Db 1081 SEYTSSEFLPYTSPPYVDLNDNLVLAQAEVLHSDISLALFVDTVCVSPHENDSUTD 1140
QY 435 LIKSGCRDTCVKY----PLFGHYGRFPQNAFKFLRSMSSVYLQCKVLICDSDHQSRC 490
Db 1141 LIRSGCRDTEYQSYSSPSP---RITRFKTSFHLNRPFPYVYLQCKVLVVCRAMDVSSRC 1197
QY 491 NQGVSKSRKDISSYKWKDSTIGPIRL---KDRKSAS-GNSGPOHETHAEETPNQPFN 545
Db 1198 YRGCVWASKRDVSGYEKVDVVLGPIQLQSPSKRSLDLAVADVKKPASPQEV---YP 1253
QY 546 SVHLFSFMVLALNVVTVATIV 567
Db 1254 TAAIFGGVFLAL-WVAVAFTL 1274

```

## RESULT 2

```

US-09-341-587-3
; Sequence 3, Application US/09341587
; Patent No. 6346606
; GENERAL INFORMATION:
; APPLICANT: Mollenhauer, Jan
; TITLE OF INVENTION: Protein Containing an SRCR Domain
; FILE REFERENCE: 4121-108
; CURRENT APPLICATION NUMBER: US/09/341,587
; EARLIER FILING DATE: 1999-08-31
; EARLIER APPLICATION NUMBER: PCT/DE98/00096
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1785
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-341-587-3

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Query Match 27.3%; Score 837; DB 4; Length 1785;
Best Local Similarity 29.7%; Pred. No. 7.6e-72;
Matches 186; Conservative 122; Mismatches 161; Indels 158; Gaps 13;

QY 36 CWTWTERPENKSIIRILFSYVQLDPDGCSESENKIVFDGTSNGPLLGQVCSKNDVYVFE 95
Db 1164 CWWEIVNSGYRNLGFSNKLKAHNCSDFYVEIFDGSLSLLGKIC--NDTRQIFT 1221
QY 96 SSSSTLTQIVTDSARIQRTVFVYFFSP----- 125

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Db 1222 SSINRMTIHFRRSDIS-FONTGFLAWTNSPPSDATLRLVNLNSSYGLCAGRVEIYHGWTG 1280
QY 126 ----- 125
Db 1281 TVCDDSWTIQBAEVVYVCRQLGCGRAVSALGNAYFGSGSGSPITLDDVECSGTESTLWQCRNR 1340
QY 126 -----NISIPN---CGGYLDLTLEGSFTSPNPKPH 152
Db 1341 GWFSHNCNHRDAGVICSNGHLSPTAPFLNITRPNITDYSCGFLSQPSGDFSPPYPGNY 1400
QY 153 PELAYCWHIQQEKDYKIKLNFKEIFLEIDKOCKDFDLAIYDGPSTNSGLIGQVGRVTP 212
Db 1401 PNNKCVWDIEVQNNRVTVFVROV--QLEGCCNDYIEFDGPHSSPLIARVCDGARG 1458
QY 213 TPESSNSLTIVLSTDYANSTRGFSASYSIYAENINTSLTSSDRMVIILSKYLEAF 272
Db 1459 SFTSSNFMSTFISDHSITRGRFRAEYYS--SPSNDSTNLLCLPNHMQAASVRSYLSQL 1516
QY 273 NSNGNLQKLD---DPTCRPKLS-NVVFSPVLNGCGTIRKVEDQSTITNITTSASST 327
Db 1517 GFSASDLVSTWNGYECRQITPNLVITIPYSCGTFKQADNDIIDSNELT--AAS 1574
QY 328 SEVITROKQLIIVKCEMGNHSTVEIITTEDDVIOSQNAL-----GKYNTSMALPES 380
Db 1575 GGIKERTDLRIHVSCRMLQNTWMTYIANDTIHVANNITQVEEYQVGNFDVNIISFTS 1634
QY 381 NSPEKTIIESPYVDLNOTLFFVOVSLHTSDPNLVFLDTCRASP-TSDFASPTDILKSG 439
Db 1635 SSFLYPVTSPPYVDLNDNLVLAQAEVLHSDAVLTLFVDTVCVSPSNDTSLTYDLIRSG 1694
QY 440 CSRDCTCKVYPLFGHY-----GRFQNAFKFLRSMSSVYLQCKVLICDSDHOSRCNQ 492
Db 1695 CVRDDT-----YGPISPSLRIARFRFAHFLNRFPFVYLRKMVVCRAIDPSSRCYR 1748
QY 493 GCVSRKSRDISSYKWKDSTIGPIRLK 519
Db 1749 GCVLRSKRDVSGYEKVDVVLGPIQLQ 1775

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## RESULT 3

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US-09-341-587-1
; Sequence 1, Application US/09341587
; Patent No. 6346606
; GENERAL INFORMATION:
; APPLICANT: Mollenhauer, Jan
; TITLE OF INVENTION: Protein Containing an SRCR Domain
; FILE REFERENCE: 4121-108
; CURRENT APPLICATION NUMBER: US/09/341,587
; CURRENT FILING DATE: 1999-08-31
; EARLIER APPLICATION NUMBER: PCT/DE98/00096
; EARLIER FILING DATE: 1998-01-09
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 666
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-341-587-1

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Query Match 15.4%; Score 470.5; DB 4; Length 666;
Best Local Similarity 24.1%; Pred. No. 8.1e-37;
Matches 111; Conservative 92; Mismatches 121; Indels 137; Gaps 9;

QY 36 CWTWTERPENKSIIRILFSYVQLDPDGCSESENKIVFDGTSNGPLLGQVCSKNDVYVFE 95
Db 213 CWWEIVNSGYRNLGFSNKLKAHNCSDFYVEIFDGSLSLLGKIC--NDTRQIFT 270
QY 96 SSSSTLTQIVTDSARIQRTVFVYFFSP----- 125
Db 271 SSINRMTIHFRRSDIS-FONTGFLAWTNSPPSDATLRLVNLNSSYGLCAGRVEIYHGWTG 329
QY 126 ----- 125

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Db      330  TVCDDSWTIOAEVWCROLCGRAVSALGNAYFGSGSGPIVLDDVECSGFESTLMOCNRR 389
QY      126  -----NISTPN-----CGGYLDLTLEGSTFSPNPKPH 152
Db      390  GWFSHCNHRDAGVICSGNHLSPTAPFLNIRPNTDYS CGGFLSQPSGDFSPPYPGNY 449
QY      153  PELAYCVWHIOVEKDYKIKLNFKEFLIEDKQCKDFDLAIYDGFSTNSGLIGQVCGRWTP 212
Db      450  PNAKACVMDIEVQNNIRYTVTFRDV--QLEGNCNDYIEVDFGYSRSPLIARVCDGARG 507
QY      213  TFESSNSLTVLWSTDYANSYRGFSASYSIYAENINTSLTCSDDMRVILSKVLEAF 272
Db      508  SFTSSNSFASIRFIDSHSITRRGRAEYIS--SPSNDSTNLLCLPNEHQASYSRYLQSL 565
QY      273  NSGNNNLOLQD-----PTCRKLS--NVVEFSVPLNGCGTIRKVEDQSYITYNITTSASST 327
Db      566  GFSASDLIVITWNGYECRPOITENLVIPTFGSGTGFQKADNDITDYSNFLT--AAVS 623
QY      328  SEVITROKOLIIIVKCEMGNHSTVEIIYITTEDDVIOSONAL 368
Db      624  GGIKRRIDLRHVSRCMLQNTWYDMTIANDTIHVANTTI 664

RESULT 4
US-09-341-461-2
; Sequence 2, Application US/09341461
; Patent No., 6566389
; GENERAL INFORMATION:
; APPLICANT: Hammond, Timothy G.
; APPLICANT: Verroust, Pierre J.
; TITLE OF INVENTION: Cubilin Protein, DNA Sequences Encoding Cubilin
; TITLE OF INVENTION: and Uses Thereof
; FILE REFERENCE: D6148
; CURRENT APPLICATION NUMBER: US/09/341.461
; CURRENT FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: PCT/US99/01259
; PRIOR FILING DATE: 1999-01-21
; NUMBER OF SEQ ID NOS: 40
; SEQ ID NO 2
; LENGTH: 3623
; TYPE: PRT
; ORGANISM: rat
; FEATURE:
; OTHER INFORMATION: amino acid sequence of rat cubilin protein
US-09-341-461-2

Query Match          9.7%; Score 297.5; DB 4; Length 3623;
Best Local Similarity 28.1%; Pred. No. 1.1e-18;
Matches 101; Conservative 59; Mismatches 152; Indels 47; Gaps 15;

QY      4  AEGNACSTVSLGGANNAETHKAMILQLNP-----SENCTWIE-RPENKSIIRIFSYVOL 57
Db      1614  AEFREEC-----GGRIMTSSDTITFSPYLPYGLNONGSWIEAQPPFNGITLSTGTGOL 1669
QY      58  DPGDCSENIKVEDGTSGNPLLGQYCSKNDVVPVEFSSSTLTFQIVTDSARIQRTVF 117
Db      1670  QNSWDCTRDFVEILDNDYDAPVGRVCGFSLPEPII-SFGNALTIVFTDSTRSEGFR 1728
QY      118  VYFYFSPNTSIDPCGGYLDLTLEGSTFSPNPKPHPELAYCVWHIOVEKDYKIKLNFKEI 177
Db      1729  AIY-----SASTSCGGSFYTLIDGIFNSPDYPADYGPNAECVMNIASSPCGNRLQSLFSL 1783
QY      178  FLEIDKOCKDFDLAIYDGFSTNSGLIGQVCGRWTPFFESS--NSLTVLWSTDYANSYRG 235
Db      1784  NLENSLNCNKDFEIRREGNAT--GGLIGRYCNSLPGNYSSAEGGSLWVRVDSGSGTGMG 1842
QY      236  FSAYSTSYAEN--INTSLTCS-----SDMRVILSKVLEAFNSGNLQKD- 283
Db      1843  FOAREKNIIFGNNVIGTGGKIASPFWPKYPYNSNFKWVN---VDAYIGIGRILEMDI 1899
QY      284  -PTCR-----PKLSNVVEFSVPLNG--CGTIRKVEDQSYITYNITTSASSTSEVITR 333

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## RESULT 6

US-09-021-287-3  
; Sequence 3, Application US/09021287  
; Patent No. 5981717  
; GENERAL INFORMATION:  
; APPLICANT: Greenspan, Daniel S  
; APPLICANT: Takahara, Kazuhiko  
; APPLICANT: Hoffman, Guy G  
; TITLE OF INVENTION: Mammalian Tolloid-Like Protein  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Quarles & Brady  
; STREET: 1 South Pinckney Street  
; CITY: Madison  
; STATE: WI  
; COUNTRY: US  
; ZIP: 53703  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/021.287  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/866,650  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Berson, Bennett J  
; REGISTRATION NUMBER: 37094  
; REFERENCE/DOCKET NUMBER: 960296.93839  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 608-251-5000  
; TELEFAX: 608-251-9166  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; TYPE: amino acid  
; LENGTH: 1013 amino acids  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-09-021-287-3

Query Match 9.6%; Score 293; DB 2; Length 1013;  
Best Local Similarity 25.6%; Pred. No. 3.5e-19;  
Matches 79; Conservative 47; Mismatches 120; Indels 62; Gaps 9;  
QY 32 PSENCTWIERPENKSIIRIFSYVQLDPDGCSESENKIVFDGTSSNGPLLGQVCKNDYV 91  
Db 484 PMKECVKLMVSEGYHVLTFQAFETIERHDS CAYDHLVDRGASENSPLIGRFG-YDKP 542  
QY 92 PVFESSSTLTFTQIVTDSARIQTVFVFFYF-----F 123  
Db 543 EDIRSTNTLWKFVSDGT-VNKAGFAANFFKEDECAKPDRCGCEQRCNLTLGSYQCAC 601  
QY 124 SPNISI-PN-----CGYLDTLEGSTSPNPKPHELAYCVWHIOVKDYKIKLNFK 175  
Db 602 EPGVELGPDRRSCEAACGGLLTKNGTITTPGPKPEYPPKNCVQVIAPSQYRISVKFE 661  
QY 176 EIFLEIDKQCKDFLAIYDGPSTNSGLIGQVCGRVTP-TFESSNSLTWVLTSDYANSYR 234  
Db 662 FFELEGNEVCYDYVEIWSGSPSESKLHGKFCGADIPEVMTSHFNMRIFKSDNTVSKK 721  
QY 235 GFSASYTS-----IYAENINTT-SLTCSDDRMVLIISKYLEAFNSNGNLQIK 282  
Db 722 GFKAHFFSDKCDKNGGCGQECVNTMGSYTCQ-----RNGFVLHKNHCK 770  
QY 283 DPTCRPKL 290  
Db 771 EAECEQKI 778

## RESULT 8

US-08-453-472-6  
; Sequence 6, Application US/08453472

## RESULT 7

US-09-240-473-3  
; Sequence 3, Application US/09240473  
; Patent No. 6297011  
; GENERAL INFORMATION:  
; APPLICANT: Greenspan, Daniel S  
; APPLICANT: Takahara, Kazuhiko  
; APPLICANT: Hoffman, Guy G  
; TITLE OF INVENTION: Mammalian Tolloid-Like Protein  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Quarles & Brady  
; STREET: 1 South Pinckney Street  
; CITY: Madison  
; STATE: WI  
; COUNTRY: US  
; ZIP: 53703  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/240.473  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Berson, Bennett J  
; REGISTRATION NUMBER: 37094  
; REFERENCE/DOCKET NUMBER: 960296.93839  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 608-251-5000  
; TELEFAX: 608-251-9166  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1013 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-09-240-473-3

Query Match 9.6%; Score 293; DB 3; Length 1013;  
Best Local Similarity 25.6%; Pred. No. 3.5e-19;  
Matches 79; Conservative 47; Mismatches 120; Indels 62; Gaps 9;  
QY 32 PSENCTWIERPENKSIIRIFSYVQLDPDGCSESENKIVFDGTSSNGPLLGQVCKNDYV 91  
Db 484 PMKECVKLMVSEGYHVLTFQAFETIERHDS CAYDHLVDRGASENSPLIGRFG-YDKP 542  
QY 92 PVFESSSTLTFTQIVTDSARIQTVFVFFYF-----F 123  
Db 543 EDIRSTNTLWKFVSDGT-VNKAGFAANFFKEDECAKPDRCGCEQRCNLTLGSYQCAC 601  
QY 124 SPNISI-PN-----CGYLDTLEGSTSPNPKPHELAYCVWHIOVKDYKIKLNFK 175  
Db 602 EPGVELGPDRRSCEAACGGLLTKNGTITTPGPKPEYPPKNCVQVIAPSQYRISVKFE 661  
QY 176 EIFLEIDKQCKDFLAIYDGPSTNSGLIGQVCGRVTP-TFESSNSLTWVLTSDYANSYR 234  
Db 662 FFELEGNEVCYDYVEIWSGSPSESKLHGKFCGADIPEVMTSHFNMRIFKSDNTVSKK 721  
QY 235 GFSASYTS-----IYAENINTT-SLTCSDDRMVLIISKYLEAFNSNGNLQIK 282  
Db 722 GFKAHFFSDKCDKNGGCGQECVNTMGSYTCQ-----RNGFVLHKNHCK 770  
QY 283 DPTCRPKL 290  
Db 771 EAECEQKI 778

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Query Match          9.4%; Score 289; DB 1; Length 713;
Best Local Similarity 22.6%; Pred. No. 4.7e-19;
Matches 129; Conservative 85; Mismatches 202; Indels 150; Gaps 24;

QY 50 IIFSVOLPDGDSSEN-----IKVPDGT-----SSNGPLLGQ 83
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Db 155 ISFSPQLSRLLADNQNVSEMGVTKVIGKNGRAHILPKDAIVQGFNLLDSQKTVLV 214
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 84 VCSKNDYVPFFSSSSSTLTFOI-VTDSARIQRTVFFVFFSPNIS-----IPN 131

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TELEFAX: (202) 822-0944  
TELEX: 6714627 CUSH  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 713 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-038-948-7

Query Match 9.4%; Score 289; DB 1; Length 713;  
Best Local Similarity 22.8%; Pred. No. 4,7e-19;  
Matches 129; Conservative 85; Mismatches 202; Indels 150; Gaps 24;  
QY 50 IIFSVOLDPDGSCSEN-----IKVFDGT-----SSNGPLIG 83  
DB 155 ISFSPQLFSLADENQVSEMGWIKIGNGTRAHILPLKDAIVOGFNLLIDSKVTLHV 214  
QY 84 VCSKNDYVPFESSSTLTQI-VTDSARIQRTVFVFYFSPNIS-----IPN 131  
DB 215 PANATGIVHYVQESSYLYTVQLELLFTTGQKIVFSSHAICAPDLVSACNATHMLTIPE 274  
QY 132 CGGYLDLE-GSFTSPNPKPPELAYCVWH---IQVEKDYKIKLNFKEIFLEIDKCKF 187  
DB 275 FPGKLESVDFGOWSPEDQ-----WHANGIDKEATNGRLNFRKSLKTKPSEK 324  
QY 188 DFLAYDGPSTNSGLIGVCGRVPTPFSSNSLTVLSTDIANSYRGSASYTSIYAEN 247  
DB 325 PFYQFY-----LSSKLTFYFGNMLSTVIDPE-----CHCES 357  
QY 248 INTSLTCSDRMVIISKYLEAFNSNGNQLQKDPTCRP--KLSNV--VEFSVPLNGC 303  
DB 358 PVSIDELCAQDGFMDFEVYSHOTKPALNLDLTVGNSSCOPIFKVQSVGLARFHIPLNGC 417  
QY 304 GTIRKVEDQSIYTN-IITFSASTSEVITROKQIIVKCEMHNSTVEIYITDDVI 362  
DB 418 GTRQKPEGDKVIYENIHALWENPNSIVFRNSFRMTVRC-----YIIRDSML 466  
QY 363 QSQNALGKNTS-----MALFESNFEKILSPYVD-----LNQTLFVQV 404  
DB 467 LNAHVKGHPSEAFVKPGPLVLVLYQYPDQSYQR-----PYRKDEYPLVRLQPIYMEV 521  
QY 405 S-LHTSDPNLVFLDTCRASPTSDPAS-PTYDLIKSGSRDETCVPL-----451  
DB 522 KVLRSNDPNKILVLDLDCWATSSDPASAPQWQVMDGCE-----YELDNRYTTFHPAG 574  
QY 452 -----FGHYGFQFNAPKFL---RSMSS-VILOCKVLICDSDHOS--RCNOGCVS--RSK 499  
DB 575 SSAHSGHYQRFQVKTFAFVSEARGLSLLIYFHCALICQVSLDSPLCSTVCPASLRK 634  
QY 500 RDISYKWKTDSTIIGPIRLKDRSAS 525

RESULT 10

US-08-038-948-8  
Sequence 8, Application US/08038948  
Patent No. 5641487  
GENERAL INFORMATION:  
APPLICANT: DEAN, JURRIEN  
TITLE OF INVENTION: CONTRACEPTIVE VACCINE BASED ON  
TITLE OF INVENTION: ALLOIMMUNIZATION WITH ZONA PELLUCIDA POLYPEPTIDES  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CUSHMAN, DAREY & CUSHMAN  
STREET: 1100 New York Avenue, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.  
ZIP: 20005-3918  
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/038,948  
FILING DATE: 26-MAR-1993  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/930,462  
FILING DATE: 20-AUG-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/364,379  
FILING DATE: 12-JUN-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: SCOTT, Watson T.  
REGISTRATION NUMBER: 26,581  
REFERENCE/DOCKET NUMBER: 99152/E-266-88/2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 861-3000  
TELEFAX: (202) 822-0944  
TELEX: 6714627 CUSH  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 713 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-038-948-8

Query Match 9.4%; Score 289; DB 1; Length 713;  
Best Local Similarity 22.8%; Pred. No. 4,7e-19;  
Matches 129; Conservative 85; Mismatches 202; Indels 150; Gaps 24;  
QY 50 IIFSVOLDPDGSCSEN-----IKVFDGT-----SSNGPLIG 83  
DB 155 ISFSPQLFSLADENQVSEMGWIKIGNGTRAHILPLKDAIVOGFNLLIDSKVTLHV 214  
QY 84 VCSKNDYVPFESSSTLTQI-VTDSARIQRTVFVFYFSPNIS-----IPN 131  
DB 215 PANATGIVHYVQESSYLYTVQLELLFTTGQKIVFSSHAICAPDLVSACNATHMLTIPE 274  
QY 132 CGGYLDLE-GSFTSPNPKPPELAYCVWH---IQVEKDYKIKLNFKEIFLEIDKCKF 187  
DB 275 FPGKLESVDFGOWSPEDQ-----WHANGIDKEATNGRLNFRKSLKTKPSEK 324  
QY 188 DFLAYDGPSTNSGLIGVCGRVPTPFSSNSLTVLSTDIANSYRGSASYTSIYAEN 247  
DB 325 PFYQFY-----LSSKLTFYFGNMLSTVIDPE-----CHCES 357  
QY 248 INTSLTCSDRMVIISKYLEAFNSNGNQLQKDPTCRP--KLSNV--VEFSVPLNGC 303  
DB 358 PVSIDELCAQDGFMDFEVYSHOTKPALNLDLTVGNSSCOPIFKVQSVGLARFHIPLNGC 417  
QY 304 GTIRKVEDQSIYTN-IITFSASTSEVITROKQIIVKCEMHNSTVEIYITDDVI 362  
DB 418 GTRQKPEGDKVIYENIHALWENPNSIVFRNSFRMTVRC-----YIIRDSML 466  
QY 363 QSQNALGKNTS-----MALFESNFEKILSPYVD-----LNQTLFVQV 404  
DB 467 LNAHVKGHPSEAFVKPGPLVLVLYQYPDQSYQR-----PYRKDEYPLVRLQPIYMEV 521  
QY 405 S-LHTSDPNLVFLDTCRASPTSDPAS-PTYDLIKSGSRDETCVPL-----451  
DB 522 KVLRSNDPNKILVLDLDCWATSSDPASAPQWQVMDGCE-----YELDNRYTTFHPAG 574  
QY 452 -----FGHYGFQFNAPKFL---RSMSS-VILOCKVLICDSDHOS--RCNOGCVS--RSK 499  
DB 575 SSAHSGHYQRFQVKTFAFVSEARGLSLLIYFHCALICQVSLDSPLCSTVCPASLRK 634  
QY 500 RDISYKWKTDSTIIGPIRLKDRSAS 525

Db 635 REANKEDTMTVSLPGPILLSDVSS 660

## RESULT 11

US-08-038-948-10  
; Sequence 10, Application US/08038948  
; Patent No. 5641487  
; GENERAL INFORMATION:  
; APPLICANT: DEAN, JURRIEN  
; TITLE OF INVENTION: CONTRACEPTIVE VACCINE BASED ON  
; TITLE OF INVENTION: ALLOIMUNIZATION WITH ZONA PELLUCIDA POLYPEPTIDES  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CUSHMAN, DAREY & CUSHMAN  
; STREET: 1100 New York Avenue, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: U.S.  
; ZIP: 20005-3918  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/038,948  
; FILING DATE: 26-MAR-1993  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/930,462  
; FILING DATE: 20-AUG-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/364,379  
; FILING DATE: 12-JUN-1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: SCOTT, Watson T.  
; REGISTRATION NUMBER: 26,581  
; REFERENCE/DOCKET NUMBER: 99152/E-266-88/2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 861-3000  
; TELEFAX: (202) 822-0944  
; TELEX: 6714627 CUSH  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 713 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-038-948-10

Query Match 9.4%; Score 289; DB 1; Length 713;  
Best Local Similarity 22.8%; Pred. No. 4.7e-19;  
Matches 129; Conservative 85; Mismatches 202; Indels 150; Gaps 24;

QY 50 IIFSYVOLDPDCSEEN-----IKVFGT-----SNGPLLGQ 83  
Db 155 ISFGFQFRLRDLNQNVSNGWIVKIGNGTRAHLPLKDAIVOGFNLLIDSKVTLHV 214  
QY 84 VCSKNDVVPYFSSSTLFFQI-VYDSARIQRTVFVFFYFSPNIS-----IPN 131  
Db 215 PANATGIVHYVQESSLYTVQLELLFSTGTGKIVFSSHAICAPDLSSVACNATHMTLTIPE 274  
QY 132 CGGILDILE-GSTFSNYPKPHPELAYCVWH---IQEKDYKIKLNFKFLEIDKCKFE 187  
Db 275 FPGKLESYDFGOWSIPEDQ-----WHANGIDKEATNGRLNFRKSLKLTTPKSEK 324  
QY 188 DELAYDGPSTNSLLIGQVGRVPTRESSNSITVYVLDYVANSYRGFSASYTSIYAEN 247  
Db 325 PFYOFI-----LSSKLTFYFGNMLSTVIDPE-----CHCES 357  
QY 248 INTWSLTCSDDRMVITISKSYLEAFNSNGNLIQDKPTCRP--KLSNV--VEFSPVPLNGC 303

Db 358 PVSIDELCAQDGFMDFFVYSHOTKPALNLDITLVGNSSCQPIFKVQSVGLARFHIPLNGC 417  
QY 304 GTIRKVEDOSITYTN-LITFSASSTSEVITRQKQLOLIIVKCEHNSHSTVEIIVITFEDVI 362  
Db 418 GTRQFEGDKVIYENIEHALWENPNSIVFRNSFRMTVR-----YYTRDSML 466  
QY 363 QSONALGKYNTS-----MALFESNSFEKTIESTILESPYYVD-----LNQTFLEVQV 404  
Db 467 LNAHVKGHPSEAFVFKGPLVLVLQIYPPQSVQR-----PYRKDEYPLVYRLQPIYMEV 521  
QY 405 S-LHISDNLVFLVDTGRASPISDFAS-PTDLIKSCSRDETCKYVPL----- 451  
Db 522 KVLRSNDPNIKLVLDCCWATSSDPASAPQMWIDGCE-----YELDNTRTTFHPAG 574  
QY 452 -----FGHYGRFOFNAFKFL---RSMSS-VYLOCKVLIICDSDHQH--RCNOCGV--RSK 499  
Db 575 SNAHSGHVQRFVDKVTAFVSEARGLSLIFHCSALICNQVSLDSPICSVTCPASLRSK 634  
QY 500 ROISSYKWKTDISIIGPIRLKDRSAS 525  
Db 635 REANKEDTMTVSLPGPILLSDVSS 660

## RESULT 12

US-08-453-952-6  
; Sequence 6, Application US/08453952  
; Patent No. 5672488  
; GENERAL INFORMATION:  
; APPLICANT: DEAN, JURRIEN  
; TITLE OF INVENTION: CONTRACEPTIVE VACCINE  
; TITLE OF INVENTION: BASED ON ALLOIMUNIZATION WITH ZONA PELLUCIDA  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; OPERATING SYSTEM: IBM PC COMPATIBLE  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/453,952  
; FILING DATE: 30-MAY-1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/038,948  
; FILING DATE: 26-MAR-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/930,462  
; FILING DATE: 20-AUG-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/364,379  
; FILING DATE: 12-JUN-1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: DOROTHY R. RUTH  
; REGISTRATION NUMBER: 36,434  
; REFERENCE/DOCKET NUMBER: 2026-4032 USA  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 758-4800  
; TELEFAX: (212) 751-6849  
; TELEX: 421792  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 713  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: unknown  
; MOLECULE TYPE: protein

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; ORIGINAL SOURCE:
; ORGANISM: mouse
; STRAIN:
; INDIVIDUAL ISOLATE:
; DEVELOPMENTAL STAGE:
; HAPLOTYPE:
; TISSUE TYPE:
; CELL TYPE:
; ORGANELLE:
; FEATURE:
; NAME/KEY: ZP2
; LOCATION:
; IDENTIFICATION METHOD:
; OTHER INFORMATION: mouse ZP2 protein
US-08-453-952-6

Query Match          9.4%; Score 289; DB 1; Length 713;
Best Local Similarity 22.8%; Pred. No. 4.7e-19;
Matches 129; Conservative 85; Mismatches 202; Indels 150; Gaps 24;

QY 50 IIFSVYOLDPDGSCSEN-----IKYVDGT-----SSNGPLLGQ 83
DB 155 ISFSPQFLSLADENQNVSEMGWIKIGNGTRAHILPLKDAIVQGNLLDSOKVTLHV 214
QY 84 VCSKNDYVPVFESSSTLTFOI-VTDSARIQRTVFFVFFSPNIS-----IPN 131
DB 215 PANATGIVHYVQESSYLYTVQLELFTTGQKIVFSSHAICAPDLVSACNATHMTLTPE 274
QY 132 CGGYLDLLE-GSTSPNYPKPELAYCVWH---IQVEKDYKIKLNKFEFLDKCKCF 187
DB 275 FPGKLESYDFGQWSIPEDQ-----WHANGIDKEATNGRLNFRKSLKTKPSEKC 324
QY 188 DFLAIDGPGSTNSGLIGQVGRVTPTFESSNSLTIVLSTDYANSYRGFSASYTSIAEN 247
DB 325 PFQYV-----LSSKLFLFYQGNMLSTVIDPE-----CHCES 357
QY 248 INTSLTCSDDMRVILSKYLEAFNSNGNLLQDKTCRP--KLSNV--VEFSVPLNGC 303
DB 358 PVSIDLCADQDFMDFEVYSHQTKPALNLDLTLVGNSSQCFPKVQSVGLARFHIPLNGC 417
QY 304 GTIRKVEDQSTIYN--IIFTSASSTSEVITROKLOIIVKCEMHNSTVEIILIYEDDVI 362
DB 418 GTRQKPEGDKVIYENETHEALWENPPNIVFRNSFRMTVRC-----YIYRDSML 466
QY 363 QSONALGKYNTS-----MALFESNSFEKILLESYYVD-----LNOFLFVQV 404
DB 467 LNAHVGHGSPFAFKVKGPLVLVLQIYYPQSYQR-----PYRKDEYPLVYLRQPIYMEV 521
QY 405 S-LHSDPNLVYFLDTCRASPTSDFAF-PYDILKSGCSRDETCVYPL-----451
DB 522 KYLSRNDPNKILVLDLDDWATSSBDPASAPQWQVMDGCE-----YELDNTRTTFHPAG 574
QY 452 ----PGHYRQFQNAKFL---RSMSS-VYLQCKVLICDSSDHQS--RCNOCVGS--RSK 499
DB 575 SSAASHGHYQREDYKNTAFVSEARGLSLIYFHCASALICNQVSLDSPICSVTCPASLSK 634
QY 500 RDLSSYKWTDSIIQPIRLKDRSAS 525
DB 635 REANKEDTMTVSLPGPILLSDVSSS 660

RESULT 13
US-08-862-903-6
; Sequence 6, Application US/08862903
; Patent No. 5916768
; GENERAL INFORMATION:
; APPLICANT: DEAN, JURRIEN
; TITLE OF INVENTION: CONTRACEPTIVE VACCINE
; TITLE OF INVENTION: BASED ON ALLOIMUNIZATION WITH ZONA PELLUCIDA
; TITLE OF INVENTION: POLYPEPTIDES
; NUMBER OF SEQUENCES: 12
; * CORRESPONDENCE ADDRESS:
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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.  
OM protein - protein search, using sw model  
Run on: October 15, 2003, 14:34:45 ; Search time 209 Seconds  
(without alignments)  
451.005 Million cell updates/sec  
Title: US-09-864-711-14  
Perfect score: 3064  
Sequence: 1 MAEAGNASCTVSLGGANMA.....TVRFVNRQADKYKQLQNY 585  
Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5  
Searched: 600653 seqs, 161128416 residues  
Total number of hits satisfying chosen parameters: 600653  
Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries  
Database : Published Applications\_AA:\*

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- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
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- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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1	3064	100.0	585 9	US-09-864-711-14	Sequence 14, Appl
2	3064	100.0	607 10	US-09-903-320-190	Sequence 190, App
3	3064	100.0	607 10	US-09-903-088B-190	Sequence 190, App
4	3064	100.0	607 10	US-09-905-291A-190	Sequence 190, App
5	3064	100.0	607 10	US-09-902-833-190	Sequence 190, App
6	3064	100.0	607 10	US-09-907-824-190	Sequence 190, App
7	3064	100.0	607 10	US-09-907-841-190	Sequence 190, App
8	3064	100.0	607 11	US-09-904-011-190	Sequence 190, App
9	3064	100.0	607 11	US-09-906-742-190	Sequence 190, App
10	3064	100.0	607 11	US-09-906-838-190	Sequence 190, App
11	3064	100.0	607 11	US-09-907-613-190	Sequence 190, App
12	3064	100.0	607 11	US-09-907-942-190	Sequence 190, App
13	3064	100.0	607 11	US-09-904-859-190	Sequence 190, App
14	3064	100.0	607 11	US-09-909-204-190	Sequence 190, App
15	3064	100.0	607 11	US-09-904-820-190	Sequence 190, App

16	3064	100.0	607 11	US-09-904-786-190	Sequence 190, App
17	3064	100.0	607 11	US-09-906-846-190	Sequence 190, App
18	3064	100.0	607 11	US-09-906-700-190	Sequence 190, App
19	3064	100.0	607 11	US-09-903-786-190	Sequence 190, App
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23	3064	100.0	607 11	US-09-904-956-190	Sequence 190, App
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35	3064	100.0	607 11	US-09-905-088-190	Sequence 190, App
36	3064	100.0	607 11	US-09-907-575-190	Sequence 190, App
37	3064	100.0	607 11	US-09-905-075-190	Sequence 190, App
38	3064	100.0	607 11	US-09-902-759-190	Sequence 190, App
39	3064	100.0	607 11	US-09-902-634-190	Sequence 190, App
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42	3064	100.0	607 11	US-09-902-615-190	Sequence 190, App
43	3064	100.0	607 11	US-09-903-925-190	Sequence 190, App
44	3064	100.0	607 11	US-09-906-760A-190	Sequence 190, App
45	3064	100.0	607 11	US-09-903-823-190	Sequence 190, App

ALIGNMENTS

RESULT 1  
US-09-864-711-14  
; Sequence 14, Application US/09864711  
; Patent No. US20020077309A1  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkmut, Wayne  
; APPLICANT: Klingler, Tod M.  
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS  
; FILE REFERENCE: PB-0008-1 CIP  
; CURRENT APPLICATION NUMBER: US/09/864,711  
; CURRENT FILING DATE: 2001-05-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PERL Program  
; SEQ ID NO 14  
; LENGTH: 585  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: 223163CD1  
US-09-864-711-14

Query Match				100.0%;	Score 3064;	DB 9;	Length 585;
Best Local Similarity				100.0%;	Pred. No. 7.3e-277;		
Matches 585;				Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	MAEAGNASCTVSLGGANMAETHKAMILQLNPSENCTWTIERPENKSIIRIFSYVOLDPD	60				
DB	1	MAEAGNASCTVSLGGANMAETHKAMILQLNPSENCTWTIERPENKSIIRIFSYVOLDPD	60				
QY	61	GCSEENIKVFDGSSNGPLLGQVCSKNDYVPFESSSTLTFCQIVTDSARLQIRVFVFF	120				
DB	61	GCSEENIKVFDGSSNGPLLGQVCSKNDYVPFESSSTLTFCQIVTDSARLQIRVFVFF	120				
QY	121	YFFSPNISIPNCGGYLTLEGSFTSPNPKPPELAYCVWHIQVEXDYKIKLNFKEIFLE	180				
DB	121	YFFSPNISIPNCGGYLTLEGSFTSPNPKPPELAYCVWHIQVEXDYKIKLNFKEIFLE	180				

QY 181 IDKCKDFDLAIYDGPSTNSGLIGQVCGRVTPPTFESSNSLTVVLTSDYANSYRGFSASY 240  
DB 181 IDKCKDFDLAIYDGPSTNSGLIGQVCGRVTPPTFESSNSLTVVLTSDYANSYRGFSASY 240  
QY 241 TSIYAENINTSLTSSDRMVIISKSYLEAFNSNGNQLQKDPCTCRPKLSNVVFSVPL 300  
DB 241 TSIYAENINTSLTSSDRMVIISKSYLEAFNSNGNQLQKDPCTCRPKLSNVVFSVPL 300  
QY 301 NGCGTIRKVEDOSITVNTIITFSASSTSEVITRQKQLIIVKCEMHNSTVEIITTEDD 360  
DB 301 NGCGTIRKVEDOSITVNTIITFSASSTSEVITRQKQLIIVKCEMHNSTVEIITTEDD 360  
QY 361 VIQSONALGKNTSMALFESNSFEKTIIESPYVVDLNOTLFEVQVSLHSDPNLVPLDTC 420  
DB 361 VIQSONALGKNTSMALFESNSFEKTIIESPYVVDLNOTLFEVQVSLHSDPNLVPLDTC 420  
QY 421 RASPTSDPASPTYDLIKSGCSRDECKVYPLFGHYGRFOFNAFKFLRSMSSVYLQCKVLI 480  
DB 421 RASPTSDPASPTYDLIKSGCSRDECKVYPLFGHYGRFOFNAFKFLRSMSSVYLQCKVLI 480  
QY 481 CDDSDHQRNCGVSRKRDISSYKWKTDISIIGPIRLKDRSASGSGFQHETHAEETP 540  
DB 481 CDDSDHQRNCGVSRKRDISSYKWKTDISIIGPIRLKDRSASGSGFQHETHAEETP 540  
QY 541 NOPNSVHLRFSFVWALNVTVVATITVRHFVNRADYKQKQNY 585  
DB 541 NOPNSVHLRFSFVWALNVTVVATITVRHFVNRADYKQKQNY 585

## RESULT 2

US-09-909-320-190  
; Sequence 190, Application US/09909320  
; Patent No. US20020132240A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvarcoff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT FILING DATE: 2002-01-04  
; PRIOR APPLICATION NUMBER: US/09/909,320  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 190  
; LENGTH: 607  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-909-320-190  
Query Match 100.0%; Score 3064; DB 10; Length 607;  
Best Local Similarity 100.0%; Pred. No. 7.8e-277;  
Matches 585; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MAEAGNACTVSLGGANNAETHKAMILQLNPSENCTWTIERPENKSIIRIIFYVQLDDP 60  
DB 23 MAEAGNACTVSLGGANNAETHKAMILQLNPSENCTWTIERPENKSIIRIIFYVQLDDP 82  
QY 61 GCSESENIKVFDTSSNGPLIGQVCSKNDYVPVFESSSTLTFTQIWDTSARIOTVFVEY 120  
DB 83 GCSESENIKVFDTSSNGPLIGQVCSKNDYVPVFESSSTLTFTQIWDTSARIOTVFVEY 142  
QY 121 YFFSPNISIPNCGGYLDLTLEGSFTSPNPKPHELAYCVMHIQVEKDYKIKLAFKEIFLE 180  
DB 143 YFFSPNISIPNCGGYLDLTLEGSFTSPNPKPHELAYCVMHIQVEKDYKIKLAFKEIFLE 202  
QY 181 IDKCKDFDLAIYDGPSTNSGLIGQVCGRVTPPTFESSNSLTVVLTSDYANSYRGFSASY 240  
DB 203 IDKCKDFDLAIYDGPSTNSGLIGQVCGRVTPPTFESSNSLTVVLTSDYANSYRGFSASY 262  
QY 241 TSIYAENINTSLTSSDRMVIISKSYLEAFNSNGNQLQKDPCTCRPKLSNVVFSVPL 300  
DB 263 TSIYAENINTSLTSSDRMVIISKSYLEAFNSNGNQLQKDPCTCRPKLSNVVFSVPL 322  
QY 301 NGCGTIRKVEDOSITVNTIITFSASSTSEVITRQKQLIIVKCEMHNSTVEIITTEDD 360  
DB 323 NGCGTIRKVEDOSITVNTIITFSASSTSEVITRQKQLIIVKCEMHNSTVEIITTEDD 382  
QY 361 VIQSONALGKNTSMALFESNSFEKTIIESPYVVDLNOTLFEVQVSLHSDPNLVPLDTC 420  
DB 383 VIQSONALGKNTSMALFESNSFEKTIIESPYVVDLNOTLFEVQVSLHSDPNLVPLDTC 442  
QY 421 RASPTSDPASPTYDLIKSGCSRDECKVYPLFGHYGRFOFNAFKFLRSMSSVYLQCKVLI 480  
DB 443 RASPTSDPASPTYDLIKSGCSRDECKVYPLFGHYGRFOFNAFKFLRSMSSVYLQCKVLI 502  
QY 481 CDDSDHQRNCGVSRKRDISSYKWKTDISIIGPIRLKDRSASGSGFQHETHAEETP 540  
DB 503 CDDSDHQRNCGVSRKRDISSYKWKTDISIIGPIRLKDRSASGSGFQHETHAEETP 562  
QY 541 NOPNSVHLRFSFVWALNVTVVATITVRHFVNRADYKQKQNY 585

Db 563 NQPFNSVHLFSFMVLALNVVTVATITVRHFVNQRADYKYQKQNY 607

RESULT 3

US-09-909-088B-190  
; Sequence 190, Application US/09909088B  
; Patent No. US20020146709A1

GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/909,088B  
; PRIOR FILING DATE: 2001-07-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05

; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 190  
; LENGTH: 607  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-909-088B-190  
  
Query Match 100.0%; Score 3064; DB 10; Length 607;  
Best Local Similarity 100.0%; Pred. No. 7.8e-277;  
Matches 585; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 MAEAEGNASCTVSLGGANMAETHKAMILQLNPSENCTWTIERPENKSIKILFYSYQLDDPD 60  
Db 23 MAEAEGNASCTVSLGGANMAETHKAMILQLNPSENCTWTIERPENKSIKILFYSYQLDDPD 82  
QY 61 GSCSENIKVEDGTSSNGPLLGQVCSKNDYVPVFESSSTLTFOIYDTSARIQRVFFY 120  
Db 83 GSCSENIKVEDGTSSNGPLLGQVCSKNDYVPVFESSSTLTFOIYDTSARIQRVFFY 142  
QY 121 YFFSPNISIPNCGGYLDTLEGSTSPNPKPHELAYCVWHIOVEKDYKIKLNFKEIFLE 180  
Db 143 YFFSPNISIPNCGGYLDTLEGSTSPNPKPHELAYCVWHIOVEKDYKIKLNFKEIFLE 202  
QY 181 IDQCKEFLAIYDGPSTNSGLIGQVCGRVPTFESSNSLTIVLSTDYANSYRGSASY 240  
Db 203 IDQCKEFLAIYDGPSTNSGLIGQVCGRVPTFESSNSLTIVLSTDYANSYRGSASY 262  
QY 241 TSIYAENINTSLATCSSDRMRVLIISKYLEAFNSGNNLQDKPTCRPKLSNVVFEVSPL 300  
Db 263 TSIYAENINTSLATCSSDRMRVLIISKYLEAFNSGNNLQDKPTCRPKLSNVVFEVSPL 322  
QY 301 NCGGTRKYVEDQSTYTNITTFSSASTSEVITRQKQLIIVKCEMGNHSTVEIITEDD 360  
Db 323 NCGGTRKYVEDQSTYTNITTFSSASTSEVITRQKQLIIVKCEMGNHSTVEIITEDD 382  
QY 361 VIQSONALGKNTSMALFESNTEKTLSPYVYDNLQTLFVQVSLTSDPNLVVFLDTC 420  
Db 383 VIQSONALGKNTSMALFESNTEKTLSPYVYDNLQTLFVQVSLTSDPNLVVFLDTC 442  
QY 421 RASPTSDFASPTYDLIKSGSRDETCKVYPLFGHYGRFQNAFKFLRSMSSVYLCKVLI 480  
Db 443 RASPTSDFASPTYDLIKSGSRDETCKVYPLFGHYGRFQNAFKFLRSMSSVYLCKVLI 502  
QY 481 CDSDEHQRNCGCVSRSKRDISYKWKDTSIIIGIRLKRDRSASGNSGFQHETHAETTP 540  
Db 503 CDSDEHQRNCGCVSRSKRDISYKWKDTSIIIGIRLKRDRSASGNSGFQHETHAETTP 562  
QY 541 NOPFNSVHLFSFMVLALNVVTVATITVRHFVNQRADYKYQKQNY 585  
Db 563 NOPFNSVHLFSFMVLALNVVTVATITVRHFVNQRADYKYQKQNY 607

RESULT 4

US-09-905-291A-190  
; Sequence 190, Application US/09905291A  
; Patent No. US20020160374A1

GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.



```
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905/291A
; CURRENT FILING DATE: 2001-07-12
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 190
; LENGTH: 607
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-905-291A-190

Query Match      100.0%; Score 3064; DB 10; Length 607;
Best Local Similarity 100.0%; Pred. No. 7.8e-277;
Matches 585; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAAEAGNACTVSLGGANMAETHKAMILQLNPSENCWTWTERPENKSIIRIFSYVQLDPD 60
   |||
Db 23 MAAEAGNACTVSLGGANMAETHKAMILQLNPSENCWTWTERPENKSIIRIFSYVQLDPD 82
   |||
QY 61 GSCSENIKVFDTGSSNGPLLGQVCSKNDYVPVFSSSSTLTFOIVTDSARIQTVFFY 120
   |||
Db 83 GSCSENIKVFDTGSSNGPLLGQVCSKNDYVPVFSSSSTLTFOIVTDSARIQTVFFY 142
   |||
QY 121 YFSPNISPNGGVTDLTGSTSPNYPKHPPELAYCWHIQVQKDKIKLNFEIFLE 180
   |||
Db 143 YFSPNISPNGGVTDLTGSTSPNYPKHPPELAYCWHIQVQKDKIKLNFEIFLE 202
   |||
QY 181 IDKQKDFLAYDGPSTNSGLIGQVCGRVTPTFBSSNSLTIVLSTDYANSYRGSASY 240
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Db 203 IDKQKDFLAYDGPSTNSGLIGQVCGRVTPTFBSSNSLTIVLSTDYANSYRGSASY 262
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   |||
Db 263 TSIYAENINTSLTSSDRMEVVISKSYLEAFNSNGNNLQKDPCTCRPKLSNVVESVPL 322
   |||
QY 301 NGCGTIRKVEDOSITVNTITFSASSTSEVITROKLOLIIVKCEMGNHSTVEIITTEDD 360
   |||
Db 323 NGCGTIRKVEDOSITVNTITFSASSTSEVITROKLOLIIVKCEMGNHSTVEIITTEDD 382
   |||
QY 361 VIOSNALGKINTSMALFESNFETKILSPSYVDLNTQFLFVQVSLHSDPNLWFLDTC 420
   |||
Db 383 VIOSNALGKINTSMALFESNFETKILSPSYVDLNTQFLFVQVSLHSDPNLWFLDTC 442
   |||
QY 421 RASPTSDFASPTYDLIKSGCSRDETCKVPLFGHGRQFNAFKFLRSMSSVYLOCKVLI 480
   |||
Db 443 RASPTSDFASPTYDLIKSGCSRDETCKVPLFGHGRQFNAFKFLRSMSSVYLOCKVLI 502
   |||
QY 481 CDSSDHQSRGNCQVSRSKRDISSYKWKTDSTIIGTIRLKRDRSASGNSGFQHETHAEETP 540
   |||
Db 503 CDSSDHQSRGNCQVSRSKRDISSYKWKTDSTIIGTIRLKRDRSASGNSGFQHETHAEETP 562
   |||
QY 541 NOPENSVHLFSFMTALANVTVAITVRFHVNRADYKYLQNY 585
   |||
Db 563 NOPENSVHLFSFMTALANVTVAITVRFHVNRADYKYLQNY 607
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## RESULT 5

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US-09-902-853-190
; Sequence 190, Application US/09902853
; Publication No. US20020192659A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,853
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
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; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 190
; LENGTH: 607
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-902-853-190

Query Match      100.0%; Score 3064; DB 10; Length 607;
Best Local Similarity 100.0%; Pred. No. 7.8e-277;
Matches 585; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAEAGNACSVSLGGNMAETHKAMILQNLNSENCTWTIERPENKSIIRLIESYVOLDPD 60
DB 23 MAEAGNACSVSLGGNMAETHKAMILQNLNSENCTWTIERPENKSIIRLIESYVOLDPD 82
QY 61 GSCSENIKVFDTGSSNGPLLGQVCSKNDYVPVFFSSSSTLTFTQIVTDSARIQRTVFVY 120
DB 83 GSCSENIKVFDTGSSNGPLLGQVCSKNDYVPVFFSSSSTLTFTQIVTDSARIQRTVFVY 142
QY 121 YFFSPNISPNCGGYLDLTGSGTSPNYPKPHPELAYCVWHIIQVEKDYKIKLNFEIFLE 180
DB 143 YFFSPNISPNCGGYLDLTGSGTSPNYPKPHPELAYCVWHIIQVEKDYKIKLNFEIFLE 202
QY 181 IDKCKFDFLAIYDGPSTNSGLIGQVGRVTFPTFSSNSLTIVLSDYANSYRGFSASY 240
DB 203 IDKCKFDFLAIYDGPSTNSGLIGQVGRVTFPTFSSNSLTIVLSDYANSYRGFSASY 262
QY 241 TSIYAENINTSLTCCSDRMVVIISKSYLEAFNSGNLQKDPCTCRPKLSNVVGFVPL 300
DB 263 TSIYAENINTSLTCCSDRMVVIISKSYLEAFNSGNLQKDPCTCRPKLSNVVGFVPL 322
QY 301 NGCGTRKVEDQSIYYNIITFFSASTSEVITRQKQLQIIVKCPMGHNSVVEIIVTDD 360
DB 323 NGCGTRKVEDQSIYYNIITFFSASTSEVITRQKQLQIIVKCPMGHNSVVEIIVTDD 382
QY 361 VIQSNALGKYNTSMALFESNFEKLTLESPIYVDNLQTLFVQVSLHSDPNLWFLDTC 420
DB 383 VIQSNALGKYNTSMALFESNFEKLTLESPIYVDNLQTLFVQVSLHSDPNLWFLDTC 442
QY 421 RASPTSDPASPYDILKSCSRDETCKVPLFGHGRFQFNAPKFLRSMGSVYLQKVL 480
DB 443 RASPTSDPASPYDILKSCSRDETCKVPLFGHGRFQFNAPKFLRSMGSVYLQKVL 502
QY 481 CDSSDHQSCNCGVSRKRDISSYKWKTDISIIGPTLKRDRSAGNSGFOHETHAEETP 540
DB 503 CDSSDHQSCNCGVSRKRDISSYKWKTDISIIGPTLKRDRSAGNSGFOHETHAEETP 562
QY 541 NQPNFNVHLFSEFWLALNVVVAITVYRHFVNQRADYKVKQLQNY 585
DB 563 NQPNFNVHLFSEFWLALNVVVAITVYRHFVNQRADYKVKQLQNY 607
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RESULT 6

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US-09-907-824-190
; Sequence 190, Application US/09907824
; Publication No. US20020197671A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Borstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,824
; PRIOR FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
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; NUMBER OF SEQ ID NOS: 423  
 ; SEQ ID NO 190  
 ; LENGTH: 607  
 ; TYPE: PRT  
 ; ORGANISM: Homo Sapiens  
 US-09-907-824-190

Query Match 100.0%; Score 3064; DB 10; Length 607;  
 Best Local Similarity 100.0%; Pred. No. 7.8e-277;  
 Matches 585; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAEAGNASCTVSLGGANNAETHKAMILQLNPSENCTWTIERPENKSIIRIIFYVQLDPD 60  
 DB 23 MAEAGNASCTVSLGGANNAETHKAMILQLNPSENCTWTIERPENKSIIRIIFYVQLDPD 82  
 QY 61 GCSSENIKVFDTSSNGPLIGQVCSKNDYVPVFSSSTLTFFQIVTDSARIQTVFVY 120  
 DB 83 GCSSENIKVFDTSSNGPLIGQVCSKNDYVPVFSSSTLTFFQIVTDSARIQTVFVY 142  
 QY 121 YFFSPNLSIPNCGGYLDLTGSGFTSPNPKPHELAYCVWHIOVEKDYKIKLNFKEIFLE 180  
 DB 143 YFFSPNLSIPNCGGYLDLTGSGFTSPNPKPHELAYCVWHIOVEKDYKIKLNFKEIFLE 202  
 QY 181 IDKCKEFDFAIYDGPSTNSGLIGQVCGRVPTPFSSSSSLTVVLSTDYANSYRGFSASY 240  
 DB 203 IDKCKEFDFAIYDGPSTNSGLIGQVCGRVPTPFSSSSSLTVVLSTDYANSYRGFSASY 262  
 QY 241 TSIYAENINTSITCSDRMVYIISKYLEAFNSGNNLQDKPTCRPKLSNVVFSVPL 300  
 DB 263 TSIYAENINTSITCSDRMVYIISKYLEAFNSGNNLQDKPTCRPKLSNVVFSVPL 322  
 QY 301 NGCGTIRKVEDQSIYTNLTITFSASSTSEVITRKQLOLIIVKCEMGNHSTVEIITYTDED 360  
 DB 323 NGCGTIRKVEDQSIYTNLTITFSASSTSEVITRKQLOLIIVKCEMGNHSTVEIITYTDED 382  
 QY 361 VIQSONALGYNTSMALFESNFETKLTIESPYVVDLNOTLFFQVSLHSDPNLVFDFC 420  
 DB 383 VIQSONALGYNTSMALFESNFETKLTIESPYVVDLNOTLFFQVSLHSDPNLVFDFC 442  
 QY 421 RASPTSPASPTVDLIKSCSDRETCCKVYPLFGHYGRFQFNAFKFLRSMSSVYLQCKVLI 480  
 DB 443 RASPTSPASPTVDLIKSCSDRETCCKVYPLFGHYGRFQFNAFKFLRSMSSVYLQCKVLI 502  
 QY 481 CDSDDHQRCNQGVCSKREDISSYKWKTDISIIGPFLKDRSASGSGFOHETHAETP 540  
 DB 503 CDSDDHQRCNQGVCSKREDISSYKWKTDISIIGPFLKDRSASGSGFOHETHAETP 562  
 QY 541 NQPFNSVHLFSFMVIALNVVTVATITVRHFVNQADYKYOKLQNY 585  
 DB 563 NQPFNSVHLFSFMVIALNVVTVATITVRHFVNQADYKYOKLQNY 607

RESULT 7  
 US-09-907-841-190  
 ; Sequence 190, Application US/09907841  
 ; Publication No. US20020198366A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Genentech, Inc.  
 ; APPLICANT: Ashkenazi, Avi  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, A.  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, Christopher J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Mather, Jennie P.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumes, Daniel  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William, I.  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; FILE REFERENCE: 10466-14  
 ; CURRENT APPLICATION NUMBER: US/09/907,841  
 ; PRIOR FILING DATE: 2001-11-20  
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414  
 ; PRIOR FILING DATE: 2000-02-22  
 ; PRIOR APPLICATION NUMBER: US 60/143,048  
 ; PRIOR FILING DATE: 1999-07-07  
 ; PRIOR APPLICATION NUMBER: US 60/145,698  
 ; PRIOR FILING DATE: 1999-07-26  
 ; PRIOR APPLICATION NUMBER: US 60/146,222  
 ; PRIOR FILING DATE: 1999-07-28  
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594  
 ; PRIOR FILING DATE: 1999-09-08  
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944  
 ; PRIOR FILING DATE: 1999-09-13  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090  
 ; PRIOR FILING DATE: 1999-09-15  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547  
 ; PRIOR FILING DATE: 1999-09-15  
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089  
 ; PRIOR FILING DATE: 1999-10-05  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214  
 ; PRIOR FILING DATE: 1999-11-29  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 423  
 ; SEQ ID NO 190  
 ; LENGTH: 607  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-907-841-190

Query Match 100.0%; Score 3064; DB 10; Length 607;  
 Best Local Similarity 100.0%; Pred. No. 7.8e-277;  
 Matches 585; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAEAGNASCTVSLGGANNAETHKAMILQLNPSENCTWTIERPENKSIIRIIFYVQLDPD 60  
 DB 23 MAEAGNASCTVSLGGANNAETHKAMILQLNPSENCTWTIERPENKSIIRIIFYVQLDPD 82  
 QY 61 GCSSENIKVFDTSSNGPLIGQVCSKNDYVPVFSSSTLTFFQIVTDSARIQTVFVY 120  
 DB 83 GCSSENIKVFDTSSNGPLIGQVCSKNDYVPVFSSSTLTFFQIVTDSARIQTVFVY 142  
 QY 121 YFFSPNLSIPNCGGYLDLTGSGFTSPNPKPHELAYCVWHIOVEKDYKIKLNFKEIFLE 180  
 DB 143 YFFSPNLSIPNCGGYLDLTGSGFTSPNPKPHELAYCVWHIOVEKDYKIKLNFKEIFLE 202  
 QY 181 IDKCKEFDFAIYDGPSTNSGLIGQVCGRVPTPFSSSSSLTVVLSTDYANSYRGFSASY 240  
 DB 203 IDKCKEFDFAIYDGPSTNSGLIGQVCGRVPTPFSSSSSLTVVLSTDYANSYRGFSASY 262  
 QY 241 TSIYAENINTSITCSDRMVYIISKYLEAFNSGNNLQDKPTCRPKLSNVVFSVPL 300  
 DB 263 TSIYAENINTSITCSDRMVYIISKYLEAFNSGNNLQDKPTCRPKLSNVVFSVPL 322  
 QY 301 NGCGTIRKVEDQSIYTNLTITFSASSTSEVITRKQLOLIIVKCEMGNHSTVEIITYTDED 360  
 DB 323 NGCGTIRKVEDQSIYTNLTITFSASSTSEVITRKQLOLIIVKCEMGNHSTVEIITYTDED 382  
 QY 361 VIQSONALGYNTSMALFESNFETKLTIESPYVVDLNOTLFFQVSLHSDPNLVFDFC 420  
 DB 383 VIQSONALGYNTSMALFESNFETKLTIESPYVVDLNOTLFFQVSLHSDPNLVFDFC 442

QY 421 RASPTSDPASPTDYLKSGSRDETCKVYPLFGHYGRFQFNAFKFLRSMSSVYLQCKVLI 480  
Db 443 RASPTSDPASPTDYLKSGSRDETCKVYPLFGHYGRFQFNAFKFLRSMSSVYLQCKVLI 502  
QY 481 CDSDHQRNQCQVSRKRDTSYKWKTDISIIGPIRLKDRSASGSGFOHETHAETP 540  
Db 503 CDSDHQRNQCQVSRKRDTSYKWKTDISIIGPIRLKDRSASGSGFOHETHAETP 562  
QY 541 NOPFNSVHLFSFWALNVVTVATITVRHFVNRADYKYOKLONY 585  
Db 563 NOPFNSVHLFSFWALNVVTVATITVRHFVNRADYKYOKLONY 607

## RESULT 8

US-09-904-011-190  
; Sequence 190, Application US/09904011  
; Publication No. US2003003056A1

## ; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/904,011

; PRIOR FILING DATE: 2001-07-11

; PRIOR APPLICATION NUMBER: 09/665,350

; PRIOR FILING DATE: 2000-09-18

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05

; PRIOR APPLICATION NUMBER: PCT/US99/28214

; PRIOR FILING DATE: 1999-11-29

; PRIOR APPLICATION NUMBER: PCT/US99/28313

; PRIOR FILING DATE: 1999-11-30

; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 190  
; LENGTH: 607  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-09-904-011-190

Query Match 100.0%; Score 3064; DB 11; Length 607;  
Best Local Similarity 100.0%; Pred. No. 7.8e-277;  
Matches 585; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAAREGNASCTVSLGGANMAETHKAMILQLNPSENCTWTTERPENKSTRIRIIFSVYQLDDP 60  
Db 23 MAAREGNASCTVSLGGANMAETHKAMILQLNPSENCTWTTERPENKSTRIRIIFSVYQLDDP 82  
QY 61 GSCSENIKVFDTSSNGPLGQVCKNDYVPVFESSSTLTFTQIVTDSARIQRTVFVY 120  
Db 83 GSCSENIKVFDTSSNGPLGQVCKNDYVPVFESSSTLTFTQIVTDSARIQRTVFVY 142  
QY 121 YFFSPNISIPNCGGYLDTLEGSTSPNYPKPHPELAYCVWHIQVEXDKIKLNKEIFLE 180  
Db 143 YFFSPNISIPNCGGYLDTLEGSTSPNYPKPHPELAYCVWHIQVEXDKIKLNKEIFLE 202  
QY 181 IDKQCKFDFTAIYDGPSTNSGLIGQVCGRVPTTFESSNSLAVVLTSTYANSYRGFSASY 240  
Db 203 IDKQCKFDFTAIYDGPSTNSGLIGQVCGRVPTTFESSNSLAVVLTSTYANSYRGFSASY 262  
QY 241 TSIYAENINTSLTSCSSDRMVLISKSYLEAFNSGNNLQKDPTCRPKLSNVVFEVSPL 300  
Db 263 TSIYAENINTSLTSCSSDRMVLISKSYLEAFNSGNNLQKDPTCRPKLSNVVFEVSPL 322  
QY 301 NCGGTRKVEDQSTVYTNITTSASSTSEVITRQKQLQIIVKCMGHNSTVEIYITDD 360  
Db 323 NCGGTRKVEDQSTVYTNITTSASSTSEVITRQKQLQIIVKCMGHNSTVEIYITDD 382  
QY 361 VIOSNALGKYNTSMALFESNSFEKLTILESPPYYDLNQTILFVQVSLTSDPNLVFLDTC 420  
Db 383 VIOSNALGKYNTSMALFESNSFEKLTILESPPYYDLNQTILFVQVSLTSDPNLVFLDTC 442  
QY 421 RASPTSDPASPTDYLKSGSRDETCKVYPLFGHYGRFQFNAFKFLRSMSSVYLQCKVLI 480  
Db 443 RASPTSDPASPTDYLKSGSRDETCKVYPLFGHYGRFQFNAFKFLRSMSSVYLQCKVLI 502  
QY 481 CDSDHQRNQCQVSRKRDTSYKWKTDISIIGPIRLKDRSASGSGFOHETHAETP 540  
Db 503 CDSDHQRNQCQVSRKRDTSYKWKTDISIIGPIRLKDRSASGSGFOHETHAETP 562  
QY 541 NOPFNSVHLFSFWALNVVTVATITVRHFVNRADYKYOKLONY 585  
Db 563 NOPFNSVHLFSFWALNVVTVATITVRHFVNRADYKYOKLONY 607

## RESULT 9

US-09-906-742-190  
; Sequence 190, Application US/09906742  
; Publication No. US20030023054A1

## ; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kijavin, Ivar J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/906.742  
CURRENT FILING DATE: 2001-07-16  
PRIOR APPLICATION NUMBER: 09/665,350  
PRIOR FILING DATE: 2000-09-18  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/28565  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30911  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US00/00219  
PRIOR FILING DATE: 2000-01-05  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 190  
LENGTH: 607  
TYPE: PRT  
ORGANISM: Homo Sapien  
US-09-906-742-190

Query Match 100.0%; Score 3064; DB 11; Length 607;  
Best local Similarity 100.0%; Pred. No. 7.8e-277;  
Matches 585; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAEAEAGNASCTVSLGGANMAETHKAMILQLNPSENCTWTIERPENKSIIRLFSYVQDDEP 60  
DB 23 MAEAEAGNASCTVSLGGANMAETHKAMILQLNPSENCTWTIERPENKSIIRLFSYVQDDEP 82  
QY 61 GCSESENIKVPDGTSSNGPLLGQVCSKNDYVPVFESSSTLTFOIVTDSARIQTVFVFF 120  
DB 83 GCSESENIKVPDGTSSNGPLLGQVCSKNDYVPVFESSSTLTFOIVTDSARIQTVFVFF 142  
QY 121 YFFSPNISIPNCGGYLDTLEGSTSPNPKPHELAYCWHIOVEKDYKIKLNKEIFLE 180  
DB 143 YFFSPNISIPNCGGYLDTLEGSTSPNPKPHELAYCWHIOVEKDYKIKLNKEIFLE 202  
QY 181 IDKQCKFDFLAIYDGPSTNSGLIGQVCGRVPTPESSNSLTVLSTDYANSYRGFSASY 240  
DB 203 IDKQCKFDFLAIYDGPSTNSGLIGQVCGRVPTPESSNSLTVLSTDYANSYRGFSASY 262  
QY 241 TSIYAENINTTSLTCCSSDRMRVTSKSYLEAFNSNGNLLQKDPTCRPKLSNVVEFSVPL 300  
DB 263 TSIYAENINTTSLTCCSSDRMRVTSKSYLEAFNSNGNLLQKDPTCRPKLSNVVEFSVPL 322  
QY 301 NGCGTRKVEDQSTYNTNITFESASSTSEVITROKQQLIVKCEMGNSTVEIITTEDD 360  
DB 323 NGCGTRKVEDQSTYNTNITFESASSTSEVITROKQQLIVKCEMGNSTVEIITTEDD 382  
QY 361 VIQSONALGKNTSMALFESNSPEKTILESPTTYVDLNTQTLFVQVSLHSDPNLVVFLDTC 420  
DB 383 VIQSONALGKNTSMALFESNSPEKTILESPTTYVDLNTQTLFVQVSLHSDPNLVVFLDTC 442  
QY 421 RASPTSDRASPTDYLKSGCSRDETCVKYPLFGHVGREFQFNKFLKSMSSVYLQCKVLI 480  
DB 443 RASPTSDRASPTDYLKSGCSRDETCVKYPLFGHVGREFQFNKFLKSMSSVYLQCKVLI 502  
QY 481 CDSSDHQSRGQVCSRSKRDISSYKWKTDSSIIGIRLKRDRSAGNSGFGQETHAEETP 540  
DB 503 CDSSDHQSRGQVCSRSKRDISSYKWKTDSSIIGIRLKRDRSAGNSGFGQETHAEETP 562  
QY 541 NQPFNSVHLFSFVWALANVTVATITVRHFVNQRADYKQKLY 585  
DB 563 NQPFNSVHLFSFVWALANVTVATITVRHFVNQRADYKQKLY 607

RESULT 10

US-09-906-838-190  
; Sequence 190, Application US/09906838  
; Publication No. US2003002/143A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kijavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/906,838  
CURRENT FILING DATE: 2001-07-16  
PRIOR APPLICATION NUMBER: 09/665,350  
PRIOR FILING DATE: 2000-09-18  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/28565  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30911  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US00/00219  
PRIOR FILING DATE: 2000-01-05  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 190  
LENGTH: 607  
TYPE: PRT  
ORGANISM: Homo Sapien  
US-09-906-838-190

Query Match 100.0%; Score 3064; DB 11; Length 607;  
Best Local Similarity 100.0%; Pred. No. 7.8e-277; Indels 0; Gaps 0;  
Matches 585; Conservative 0; Mismatches 0

Qy 1 MAEAGNASCIVSLGGANNAETHKAMILQLNPSENCTWTIERPENKSIIRIFSYVQLDPD 60  
Db 23 MAEAGNASCIVSLGGANNAETHKAMILQLNPSENCTWTIERPENKSIIRIFSYVQLDPD 82

Qy 61 GCSEENIKVDFGSSNGPLLGQVCKNDYVPVFESSSLTFTQIVTDSARIQRTVFVY 120  
Db 83 GCSEENIKVDFGSSNGPLLGQVCKNDYVPVFESSSLTFTQIVTDSARIQRTVFVY 142

Qy 121 YFFSNISIPNCGYILDTLGGSTPNPKPHELAYCVWHIOVEKDYKIKLNKEIFLE 180  
Db 143 YFFSNISIPNCGYILDTLGGSTPNPKPHELAYCVWHIOVEKDYKIKLNKEIFLE 202

Qy 181 IDKQCKDFLAIYDGPSTNSGLIGQVCGRTPTTFESSNSLITVVLSTDYANSYRGSASY 240  
Db 203 IDKQCKDFLAIYDGPSTNSGLIGQVCGRTPTTFESSNSLITVVLSTDYANSYRGSASY 262

Qy 241 TSIYAENINTVSLTCCSDRMVYIISKYLEAFNSNGNMLQKDPTCRPKLSNVVFFSVP 300  
Db 263 TSIYAENINTVSLTCCSDRMVYIISKYLEAFNSNGNMLQKDPTCRPKLSNVVFFSVP 322

Qy 301 NCGGTRKVEDQSIYTNITTFSSASTSEVITRQKQLIIVKCMGHNSTVILIIITDD 360  
Db 323 NCGGTRKVEDQSIYTNITTFSSASTSEVITRQKQLIIVKCMGHNSTVILIIITDD 382

Qy 361 VIOSQNALGKYNTSMALFESNSFEKTIESTYVYDLNQILFVQVSLHTSDPNLVFLDTC 420  
Db 383 VIOSQNALGKYNTSMALFESNSFEKTIESTYVYDLNQILFVQVSLHTSDPNLVFLDTC 442

Qy 421 RASPTSDFASTPTDYLKSGCSRDEICKYVPLFGHYGRFQFNAFKFLRSMSSVYLOCKVLI 480  
Db 443 RASPTSDFASTPTDYLKSGCSRDEICKYVPLFGHYGRFQFNAFKFLRSMSSVYLOCKVLI 502

Qy 481 CDSSDHQSRNQCVRSKRDISSYKWKTDISIOPILKKRDSASGNSGFQETHABETP 540  
Db 503 CDSSDHQSRNQCVRSKRDISSYKWKTDISIOPILKKRDSASGNSGFQETHABETP 562

Qy 541 NOPENSVELFSEMYLAINVTVTATITVRHFVNORADYKYOXKONY 585  
Db 563 NOPENSVELFSEMYLAINVTVTATITVRHFVNORADYKYOXKONY 607

RESULT 11  
US-09-907-613-190  
Sequence 190, Application US/09907613  
Publication No. US20030027145A1  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/907,613  
CURRENT FILING DATE: 2001-07-17  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29

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; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 190
; LENGTH: 607
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-613-190

Query Match      100.0%; Score 3064; DB 11; Length 607;
Best Local Similarity 100.0%; Pred. No. 7.8e-277; Indels 0; Gaps 0;
Matches 585; Conservative 0; Mismatches 0;

Qy 1 MAEAGNASCTVSLGGANMAETHKAMILQLNPSENCTWTIERPENKSRIRIFSVQLDPD 60
Db 23 MAEAGNASCTVSLGGANMAETHKAMILQLNPSENCTWTIERPENKSRIRIFSVQLDPD 82
Qy 61 GSCSENIKVEDTSGNGLLQVCVKNDYVPFESSSTLQFQVTSRARIQTVFVY 120
Db 83 GSCSENIKVEDTSGNGLLQVCVKNDYVPFESSSTLQFQVTSRARIQTVFVY 142
Qy 121 YFFSPNISPCGGYDLTLEGSTSPNPKPHPELAYCVWHIQVEKDKIKLNKEIFLE 180
Db 143 YFFSPNISPCGGYDLTLEGSTSPNPKPHPELAYCVWHIQVEKDKIKLNKEIFLE 202
Qy 181 IDKQCKEFDLAIYDGPSTNSGLIGQVCGRVTPFESSNSLTVLSTDYANSYGFSA 240
Db 203 IDKQCKEFDLAIYDGPSTNSGLIGQVCGRVTPFESSNSLTVLSTDYANSYGFSA 262
Qy 241 TSITAEINNTSLTSSDRMVIISKYLEAFNSGNNLQKDPCTCRPKLSNVVEFSVPL 300
Db 263 TSITAEINNTSLTSSDRMVIISKYLEAFNSGNNLQKDPCTCRPKLSNVVEFSVPL 322
Qy 301 NCGGIRKVEDQSTVTNNITTSASTSEVITROKQLIIVKCEMGNHSTVEIITYPEDD 360
Db 323 NCGGIRKVEDQSTVTNNITTSASTSEVITROKQLIIVKCEMGNHSTVEIITYPEDD 382
Qy 361 VIOSNALGKNTSMALFESNFEKTIILESPYVVDLNOTLFOVSLHTSDPNLVFLDTC 420
Db 383 VIOSNALGKNTSMALFESNFEKTIILESPYVVDLNOTLFOVSLHTSDPNLVFLDTC 442
Qy 421 RASPTSDPASPTDYLKSGCRDETCVYPLFGHYGRFQFNAPKFLRSNMSVYLQCKVLI 480
Db 443 RASPTSDPASPTDYLKSGCRDETCVYPLFGHYGRFQFNAPKFLRSNMSVYLQCKVLI 502
Qy 481 CDSDDHQRCNQCGVSKSRDTSYKWKTDLSILGPIRLKDRSASGNSGFQHETHAETP 540
Db 503 CDSDDHQRCNQCGVSKSRDTSYKWKTDLSILGPIRLKDRSASGNSGFQHETHAETP 562
Qy 541 NQPFNSVHLFSFMVIALNVVTVATITVRHFVNRADYKYOKLQNY 585
Db 563 NQPFNSVHLFSFMVIALNVVTVATITVRHFVNRADYKYOKLQNY 607

RESULT 12
US-09-907-942-190
; Sequence 190, Application US/09907942
; Publication No. US20030027146A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,942
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 190
; LENGTH: 607
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-942-190

Query Match      100.0%; Score 3064; DB 11; Length 607;
Best Local Similarity 100.0%; Pred. No. 7.8e-277; Indels 0; Gaps 0;
Matches 585; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 MAEAGNACTVSLGGANNAETHKAMILQLNPSENCTWTIERPENKSIIRIFSYVQLDPD 60
Db 23 MAEAGNACTVSLGGANNAETHKAMILQLNPSENCTWTIERPENKSIIRIFSYVQLDPD 82
QY 61 GSCSENIKVPDGTSSNGPLLGQVCKNDYVPVPESSSTLTFTQIYVDSARIQRTVFVFF 120
Db 83 GSCSENIKVPDGTSSNGPLLGQVCKNDYVPVPESSSTLTFTQIYVDSARIQRTVFVFF 142
QY 121 YFFSPNISPCGGYLDLTGGFTSPNPKPHEPLAICVWHIOVEKDYKIKLNKEIFLE 180
Db 143 YFFSPNISPCGGYLDLTGGFTSPNPKPHEPLAICVWHIOVEKDYKIKLNKEIFLE 202
QY 181 IDKQCKDFDLAIDGPGSTNSGLIGQVCGKVTPTPESSNSLAVLSTDYANSYRGFSASY 240
Db 203 IDKQCKDFDLAIDGPGSTNSGLIGQVCGKVTPTPESSNSLAVLSTDYANSYRGFSASY 262
QY 241 TSIYAENINTSLTSCSSDRMRVLIISKYLEAFNSGNNLQDKPTCRPKLSNVVEFSVPL 300
Db 263 TSIYAENINTSLTSCSSDRMRVLIISKYLEAFNSGNNLQDKPTCRPKLSNVVEFSVPL 322
QY 301 NCGGIRKVEQDSITNTNITFSASSTSEVITRQKQLIIVKCEMGNSTVEIITDEDD 360
Db 323 NCGGIRKVEQDSITNTNITFSASSTSEVITRQKQLIIVKCEMGNSTVEIITDEDD 382
QY 361 VIQSONALGKYNTSMALFESNFEKTILESPIYVDLNOTLFGVSLHTSDPNLVVFLDTC 420
Db 383 VIQSONALGKYNTSMALFESNFEKTILESPIYVDLNOTLFGVSLHTSDPNLVVFLDTC 442
QY 421 RASPTSDPASPTDYLKSCSRDECKVYPLFGHYGRFQFNAFKFLRSMSVYLQCKVLI 480
Db 443 RASPTSDPASPTDYLKSCSRDECKVYPLFGHYGRFQFNAFKFLRSMSVYLQCKVLI 502
QY 481 CDSDDHQRNQCQVSRKRDISSYKWKTDSSIIGPIRLKDRSASGNSGFQETHAEETP 540
Db 503 CDSDDHQRNQCQVSRKRDISSYKWKTDSSIIGPIRLKDRSASGNSGFQETHAEETP 562
QY 541 NQPFNSVHLFSFWALNVVTVATITVRHFVNQADYKYOKLONY 585
Db 563 NQPFNSVHLFSFWALNVVTVATITVRHFVNQADYKYOKLONY 607
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## RESULT 13

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US-09-904-859-190
; Sequence 190, Application US/09904859
; Publication NO. US20030036060A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavar, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
```

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; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,859
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 190
; LENGTH: 607
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-904-859-190
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Query Match 100.0%; Score 3064; DB 11; Length 607;
Best Local Similarity 100.0%; Pred. No. 7.8e-277;
Matches 585; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAEAGNACTVSLGGANNAETHKAMILQLNPSENCTWTIERPENKSIIRIFSYVQLDPD 60
Db 23 MAEAGNACTVSLGGANNAETHKAMILQLNPSENCTWTIERPENKSIIRIFSYVQLDPD 82
QY 61 GSCSENIKVPDGTSSNGPLLGQVCKNDYVPVPESSSTLTFTQIYVDSARIQRTVFVFF 120
Db 83 GSCSENIKVPDGTSSNGPLLGQVCKNDYVPVPESSSTLTFTQIYVDSARIQRTVFVFF 142
QY 121 YFFSPNISPCGGYLDLTGGFTSPNPKPHEPLAICVWHIOVEKDYKIKLNKEIFLE 180
Db 143 YFFSPNISPCGGYLDLTGGFTSPNPKPHEPLAICVWHIOVEKDYKIKLNKEIFLE 202
QY 181 IDKQCKDFDLAIDGPGSTNSGLIGQVCGKVTPTPESSNSLAVLSTDYANSYRGFSASY 240
Db 203 IDKQCKDFDLAIDGPGSTNSGLIGQVCGKVTPTPESSNSLAVLSTDYANSYRGFSASY 262
QY 241 TSIYAENINTSLTSCSSDRMRVLIISKYLEAFNSGNNLQDKPTCRPKLSNVVEFSVPL 300
Db 263 TSIYAENINTSLTSCSSDRMRVLIISKYLEAFNSGNNLQDKPTCRPKLSNVVEFSVPL 322
QY 301 NCGGIRKVEQDSITNTNITFSASSTSEVITRQKQLIIVKCEMGNSTVEIITDEDD 360
Db 323 NCGGIRKVEQDSITNTNITFSASSTSEVITRQKQLIIVKCEMGNSTVEIITDEDD 382
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QY 361 VIQSONALGKYNYSMALFESNFKETILESPPYVDNLQTLFVQVSLHTSDPNLWVFLDTC 420  
DB 383 VIQSONALGKYNYSMALFESNFKETILESPPYVDNLQTLFVQVSLHTSDPNLWVFLDTC 442  
QY 421 RASPTSDPASPTDILIKSGSRDETCKVYPLFGHYGRFOENAFKFLRSMSVYLCKVLI 480  
DB 443 RASPTSDPASPTDILIKSGSRDETCKVYPLFGHYGRFOENAFKFLRSMSVYLCKVLI 502  
QY 481 CDSDDHQSCNCGCVSRKDDISYKWKDTSIIGPIRLKDRSASGNSGFQETHAETP 540  
DB 503 CDSDDHQSCNCGCVSRKDDISYKWKDTSIIGPIRLKDRSASGNSGFQETHAETP 562  
QY 541 NQPFNSVHLFSFWMIALNVVTATITVRHFVNQRADYKYLQNY 585  
DB 563 NQPFNSVHLFSFWMIALNVVTATITVRHFVNQRADYKYLQNY 607

RESULT 14

US-09-909-204-190  
; Sequence 190, Application US/0909204  
; Publication No. US20030036061a1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Flvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/909,204  
; CURRENT FILING DATE: 2001-07-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29

; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 190  
; LENGTH: 607  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-909-204-190  
  
Query Match 100.0%; Score 3064; DB 11; Length 607;  
Best Local Similarity 100.0%; Pred. No. 7.8e-277;  
Matches 585; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
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DB 23 MAEAGNASCTVSLGGANMAETHKAMILQLAPSENCTWTIERPENKSIRIIFSYVQLDPP 82  
  
QY 61 GCSEENIKVFDGSSNGPLLGQVCKNDYVPVFESSSTLTFTQIVTDSARIQRTVFFY 120  
DB 83 GCSEENIKVFDGSSNGPLLGQVCKNDYVPVFESSSTLTFTQIVTDSARIQRTVFFY 142  
  
QY 121 YFFSPNISIPNCGGYLDTLGSTSPNPKPHELAICVWHIOVEKDYKILNFKEIFLE 180  
DB 143 YFFSPNISIPNCGGYLDTLGSTSPNPKPHELAICVWHIOVEKDYKILNFKEIFLE 202  
  
QY 181 IDKCKFDFLAIYDGPSTNSGLIGQVCGRVPTTFESSNSLTFTVLSTYANSYRGFSASY 240  
DB 203 IDKCKFDFLAIYDGPSTNSGLIGQVCGRVPTTFESSNSLTFTVLSTYANSYRGFSASY 262  
  
QY 241 TSTIAENINTSLTCSDDRMVLIISKYLEAFNSNGNMLQDKPTCRPKLSNVVFEFVPL 300  
DB 263 TSTIAENINTSLTCSDDRMVLIISKYLEAFNSNGNMLQDKPTCRPKLSNVVFEFVPL 322  
  
QY 301 NGCGTIRKVEDQSYTYNIIITFSASSTSEVITRQKQLQIIVKCEMGNSTVEIITD 360  
DB 323 NGCGTIRKVEDQSYTYNIIITFSASSTSEVITRQKQLQIIVKCEMGNSTVEIITD 382  
  
QY 361 VIQSONALGKYNYSMALFESNFKETILESPPYVDNLQTLFVQVSLHTSDPNLWVFLDTC 420  
DB 383 VIQSONALGKYNYSMALFESNFKETILESPPYVDNLQTLFVQVSLHTSDPNLWVFLDTC 442  
  
QY 421 RASPTSDPASPTDILIKSGSRDETCKVYPLFGHYGRFOENAFKFLRSMSVYLCKVLI 480  
DB 443 RASPTSDPASPTDILIKSGSRDETCKVYPLFGHYGRFOENAFKFLRSMSVYLCKVLI 502  
  
QY 481 CDSDDHQSCNCGCVSRKDDISYKWKDTSIIGPIRLKDRSASGNSGFQETHAETP 540  
DB 503 CDSDDHQSCNCGCVSRKDDISYKWKDTSIIGPIRLKDRSASGNSGFQETHAETP 562  
  
QY 541 NQPFNSVHLFSFWMIALNVVTATITVRHFVNQRADYKYLQNY 585  
DB 563 NQPFNSVHLFSFWMIALNVVTATITVRHFVNQRADYKYLQNY 607

RESULT 15

US-09-904-820-190  
; Sequence 190, Application US/09904820  
; Publication No. US20030036094a1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi

APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/904,820  
PRIOR FILING DATE: 2001-07-13  
PRIOR APPLICATION NUMBER: 09/665,350  
PRIOR FILING DATE: 2000-09-18  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/28565  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30911  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US00/00219  
PRIOR FILING DATE: 2000-01-05  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 190  
LENGTH: 607  
TYPE: PRT  
ORGANISM: Homo Sapien  
US-09-904-820-190

Query Match 100.0%; Score 3064; DB 11; Length 607;  
Best Local Similarity 100.0%; Pred. No. 7.8e-277;

Matches 585; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MAEAGNASCTVSLGGANNAETHKAMILQLNPSNCTWTIERPENKSRIRIIFSVQLDPD 60  
DB 23 MAEAGNASCTVSLGGANNAETHKAMILQLNPSNCTWTIERPENKSRIRIIFSVQLDPD 82  
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DB 83 GCSESENIKVFDTSSNGPLLGQVCCKNDYVVFESSSTLAFQIVTDSARIQTWVFVY 142  
QY 121 YFFSPNISIPNCGGYLDTLEGFTSPNYPKPHPELAYCVWHIQVKDYKIKLNKEIFLE 180  
DB 143 YFFSPNISIPNCGGYLDTLEGFTSPNYPKPHPELAYCVWHIQVKDYKIKLNKEIFLE 202  
QY 181 DKOCKKFDLAIYDGPSTNSGLIGOVCGRTPTFESSNSLTAVLSTDYANSYRGFSASY 240  
DB 203 DKOCKKFDLAIYDGPSTNSGLIGOVCGRTPTFESSNSLTAVLSTDYANSYRGFSASY 262  
QY 241 TSIYAENINTTSLTSSDRMRYIISKYLEAFNSNGNLQDKDPTCRPKLSNVVFEFVPL 300  
DB 263 TSIYAENINTTSLTSSDRMRYIISKYLEAFNSNGNLQDKDPTCRPKLSNVVFEFVPL 322  
QY 301 NGCGTIRKVEDQSIITYNIIIFSSASSSEVITRQKQLIIVKCEMGNHSTVEIYYITEDD 360  
DB 323 NGCGTIRKVEDQSIITYNIIIFSSASSSEVITRQKQLIIVKCEMGNHSTVEIYYITEDD 382  
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DB 383 VIQSONALGKYNITSMALFESNSFEKTILESPYYVDLNOTLFQVSLHTSDPNLVFLDTC 442  
QY 421 RASPTSDPASFTYDLIKSGCSRDETCCKYYPFLFGHYGRFQFNAFKFLRSMSSVYLOCKVLI 480  
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QY 481 CDSSDHQSRNOCVSRSKRDISSYKWKTDIIGPIELKEDRSASGNSGFOHETHAETP 540  
DB 503 CDSSDHQSRNOCVSRSKRDISSYKWKTDIIGPIELKEDRSASGNSGFOHETHAETP 562  
QY 541 NQPFNSVHLFSFVMLALNVVTVATITVRHFYNQADYKQKQLQNY 585  
DB 563 NQPFNSVHLFSFVMLALNVVTVATITVRHFYNQADYKQKQLQNY 607

Search completed: October 15, 2003, 15:01:30  
Job time : 211 secs

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: October 15, 2003, 15:01:35 ; Search time 86 Seconds  
(without alignments)  
3002.432 Million cell updates/sec

Title: US-09-864-711-14

Perfect score: 585

Sequence: 1 MAEAGNASTVSLGGANMA.....TVRFVFNQADYKYLQNY 585

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Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
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Searched: 569978 seqs, 220691566 residues

Word size: 1

Total number of hits satisfying chosen parameters: 1135299

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Command line parameters:

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-DB=Issued\_Patents\_NA -QEMP=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPCT=0  
-LOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo -FRANS=human40.cdd  
-LIST=45 -DOALIGN=200 -THR\_SCORE=quality -THR\_MIN=1 -ALIGN=15 -MODE=LOCAL  
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-DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAEXT=60 -FGAPOP=6  
-FGAEXT=7 -YGAPOP=60 -YGAEXT=60 -DELOP=6 -DELEXT=7

Database :

Issued\_Patents\_NA:\*  
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2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq.\*  
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4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/2/ina/PTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Length	ID	Description
1	40	6.8	167	1 US-08-700-575-39
2	8	1.4	252	4 US-09-328-352-3619
3	8	1.4	501	4 US-09-894-998A-13
4	8	1.4	603	4 US-09-328-352-3514
5	8	1.4	761	4 US-09-894-998A-53
6	8	1.4	1089	4 US-09-453-702B-241
7	8	1.4	1260	1 US-07-866-979-3
8	8	1.4	1260	2 US-08-466-906B-3
9	8	1.4	1260	3 US-08-706-281A-3
10	8	1.4	1260	3 US-09-201-746-3
11	8	1.4	1260	3 US-09-097-231-3
12	8	1.4	1260	4 US-09-353-099-3

13	8	1.4	2859	2 US-08-506-340A-2
14	8	1.4	3423	4 US-08-471-112A-2
15	8	1.4	5430	3 US-09-012-515A-11
16	8	1.4	5430	3 US-08-360-144A-11
17	8	1.4	5430	4 US-09-012-504A-11
18	8	1.4	5430	4 US-09-012-399A-11
19	8	1.4	5802	4 US-09-341-587-4
20	8	1.4	6534	3 US-09-194-613-4
21	8	1.4	7653	4 US-08-471-112A-1
22	8	1.4	7824	5 PCT-US95-06722-11
23	8	1.4	8598	4 US-08-305-790B-1
24	8	1.4	11958	3 US-09-134-246-8
25	8	1.4	28720	4 US-09-341-587-7
26	8	1.4	4403765	3 US-09-103-840A-1
27	8	1.4	4411529	3 US-09-103-840A-2
28	7	1.2	36	3 US-09-386-607-5
29	7	1.2	47	4 US-09-422-978-2783
30	7	1.2	78	1 US-08-281-229A-3
31	7	1.2	78	1 US-08-281-229A-6
32	7	1.2	78	1 US-08-281-229A-6
33	7	1.2	78	1 US-08-281-229A-7
34	7	1.2	131	1 US-07-998-003A-84
35	7	1.2	131	1 US-08-453-274B-84
36	7	1.2	131	1 US-08-453-695A-84
37	7	1.2	131	1 US-08-268-161A-84
38	7	1.2	131	2 US-08-453-702A-84
39	7	1.2	131	3 US-09-099-639-84
40	7	1.2	131	5 PCT-US93-12588-84
41	7	1.2	131	5 PCT-US95-08071-84
42	7	1.2	223	1 US-08-223-177A-14
43	7	1.2	243	4 US-08-750-088A-56
44	7	1.2	266	4 US-09-313-294A-878
45	7	1.2	279	3 US-09-085-199B-43

ALIGNMENTS

RESULT 1  
US-08-700-575-39  
; Sequence 39, Application US/08700575  
; Patent No. 5817479  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice  
; APPLICANT: Bandman, Olga  
; APPLICANT: Hawkins, Phillip R.  
; APPLICANT: Wilge, Craig G.  
; TITLE OF INVENTION: NOVEL HUMAN KINASE HOMOLOGS  
; NUMBER OF SEQUENCES: 45  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/700,575  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: BILLINGS, LUCY J  
; REGISTRATION NUMBER: 36749  
; REFERENCE/DOCKET NUMBER: SP-100 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 39:  
; SEQUENCE CHARACTERISTICS:

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; LENGTH: 167 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY: Pancreas
; CLONE: 223163
US-08-700-575-39

Alignment Scores:
Pred. No.: 1.06e-31 Length: 167
Score: 40.00 Matches: 54
Percent Similarity: 98.18% Conservative: 0
Best Local Similarity: 98.18% Mismatches: 1
Query Match: 6.84% Indels: 1
DB: 0 Gaps: 0

US-09-864-711-14 (1-585) x US-08-700-575-39 (1-167)

QY 255 CysSerSerAspArgMetArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSer 274
DB 3 TGCTCTTGACAGATGACAGATATATATACCAATCTACCTAGAGCGTTTAACTCT 62

QY 275 AsnGlyAsnAsnLeuGlnLeuLysAspProThrCysArgProLysLeuSerAsnValVal 294
DB 63 AATGGGAATACTTGCACCTAAAGACCACTTCAGACACCAAAATATCAAAATGTGTG 122

QY 295 GluPheSerValProLeuAsnGlyCysGlyThrIleArgLysVal 309
DB 123 GA-TTTCGTGCTCCCTTAATGATGTGTGATCAATCAAGAAAGTGA 166

RESULT 2
US-09-328-352-3619
; Sequence 3619, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 3619
; LENGTH: 252
; TYPE: DNA
; ORGANISM: Acinetobacter baumannii
US-09-328-352-3619

Alignment Scores:
Pred. No.: 29.7 Length: 252
Score: 8.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.37% Indels: 0
DB: 0 Gaps: 0

US-09-864-711-14 (1-585) x US-09-328-352-3619 (1-252)

QY 210 ValThrProThrPheGluSerSer 217
DB 198 GTTACGCCAACGTTTGAAGCTCA 221

RESULT 3
US-09-894-998A-13/c
; Sequence 13, Application US/09894998A
; Patent No. 6537555
; GENERAL INFORMATION:
; APPLICANT: Hosken, Nancy Ann
; APPLICANT: Craig H. Day
; APPLICANT: Davin C. Dillon
; APPLICANT: McGowan, Patrick
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
; FILE REFERENCE: 210121.538
```

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; APPLICANT: Sleath, Paul R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
; FILE OF INVENTION: TREATMENT OF HERPES SIMPLEX VIRUS INFECTION
; FILE REFERENCE: 210121.538
; CURRENT APPLICATION NUMBER: US/09/894,998A
; CURRENT FILING DATE: 2001-06-28
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 501
; TYPE: DNA
; ORGANISM: Herpes simplex virus
US-09-894-998A-13

Alignment Scores:
Pred. No.: 57.8 Length: 501
Score: 8.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.37% Indels: 0
DB: 4 Gaps: 0

US-09-864-711-14 (1-585) x US-09-894-998A-13 (1-501)

QY 232 SerTyArgGlyPheSerAlaSer 239
DB 139 TGTACAGGGATTTTCGGCTCG 116

RESULT 4
US-09-328-352-3514
; Sequence 3514, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 3514
; LENGTH: 603
; TYPE: DNA
; ORGANISM: Acinetobacter baumannii
US-09-328-352-3514

Alignment Scores:
Pred. No.: 69.2 Length: 603
Score: 8.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.37% Indels: 0
DB: 4 Gaps: 0

US-09-864-711-14 (1-585) x US-09-328-352-3514 (1-603)

QY 210 ValThrProThrPheGluSerSer 217
DB 130 GTTACGCCAACGTTTGAAGCTCA 153

RESULT 5
US-09-894-998A-53/c
; Sequence 53, Application US/09894998A
; Patent No. 6537555
; GENERAL INFORMATION:
; APPLICANT: Hosken, Nancy Ann
; APPLICANT: Craig H. Day
; APPLICANT: Davin C. Dillon
; APPLICANT: McGowan, Patrick
; APPLICANT: Sleath, Paul R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
; FILE REFERENCE: 210121.538
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; CURRENT APPLICATION NUMBER: US/09/894,998A  
; CURRENT FILING DATE: 2001-06-28  
; NUMBER OF SEQ ID NOS: 64  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 53  
; LENGTH: 761  
; TYPE: DNA  
; ORGANISM: HSV-2  
US-09-894-998A-53

Alignment Scores:  
Pred. No.: 86.8 Length: 761  
Score: 8.00 Matches: 8  
Percent Similarity: 100.00%  
Best Local Similarity: 100.00%  
Query Match: 1.37%  
Indels: 0  
DB: 0

US-09-864-711-14 (1-585) x US-09-894-998A-53 (1-761)

QY 232 SertYArgGlypHeSeraLaSer 239  
Db 399 TCGTACAGGGATTTCGGCTCG 376

## RESULT 6

US-09-453-702B-241/c  
; Sequence 241, Application US/09453702B  
; Patent No. 6365723  
; GENERAL INFORMATION:  
; APPLICANT: Blattner, Frederick R.  
; Burland, Nicole T.  
; Perna, Nicole T.  
; Plunkett, Guy  
; Welch, Rod  
; TITLE OF INVENTION: No. 6365723el Sequences of E. coli O157  
; NUMBER OF SEQUENCES: 265  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Quarles & Brady  
; STREET: 1 South Pinckney Street  
; CITY: Madison  
; STATE: WI  
; COUNTRY: US  
; ZIP: 53701-2113

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch. 1.44mb storage  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 8.0  
CURRENT APPLICATION DATA:  
FILING DATE: 03-Dec-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/110,955  
FILING DATE: 04-DEC-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Seay, Nicholas J.  
REGISTRATION NUMBER: 27386  
REFERENCE/DOCKET NUMBER: 960296.95017  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (608) 251-5000  
TELEFAX: (608) 251-9166  
INFORMATION FOR SEQ ID NO: 241:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1089  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
SEQUENCE DESCRIPTION: SEQ ID NO: 241:  
US-09-453-702B-241

Alignment Scores:

Pred. No.: 123 Length: 1089  
Score: 8.00 Matches: 8  
Percent Similarity: 100.00%  
Best Local Similarity: 100.00%  
Query Match: 1.37%  
Indels: 0  
DB: 0

US-09-864-711-14 (1-585) x US-09-453-702B-241 (1-1089)

QY 28 LeuInLeuAsnProSerGluAsn 35  
Db 396 CTTCACTTAATCCCTCTGAAAT 373

## RESULT 7

US-07-866-979-3  
; Sequence 3, Application US/07866979  
; Patent No. 5532347  
; GENERAL INFORMATION:  
; APPLICANT: Cone, Roger D  
; APPLICANT: Mountjoy, Kathleen G  
; TITLE OF INVENTION: Melanocyte Stimulating Hormone Receptor  
; TITLE OF INVENTION: and Uses  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Allegrretti & Witcoff, Ltd.  
; STREET: 10 South Wacker Drive, Suite 3000  
; CITY: Chicago  
; STATE: Illinois  
; COUNTRY: USA  
; ZIP: 60606  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/866,979  
; FILING DATE: 19920410  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: No. 5532347nan, Kevin E  
; REGISTRATION NUMBER: 35,303  
; REFERENCE/DOCKET NUMBER: 92,154  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 312-715-1000  
; TELEFAX: 312-715-1234  
; TELEX: 910-221-5317  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1260 base pairs  
; TYPE: NUCLEIC ACID  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: CDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 15..959  
; FEATURE:  
; NAME/KEY: 5'UTR  
; LOCATION: 1..14  
; FEATURE:  
; NAME/KEY: 3'UTR  
; LOCATION: 960..1260  
US-07-866-979-3

Alignment Scores:  
Pred. No.: 142 Length: 1260  
Score: 8.00 Matches: 8  
Percent Similarity: 100.00%  
Best Local Similarity: 100.00%  
Query Match: 1.37%  
Indels: 0  
DB: 0

US-09-864-711-14 (1-585) x US-07-866-979-3 (1-1260)

QY 250 ThrThrSerLeuThrCysSerSer 257  
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 Db 358 AACACCTCATTCAGCGTGCATCT 381

RESULT 8

US-08-466-906B-3  
 ; Sequence 3, Application US/08466906B  
 ; Patent No. 5849871  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Cone, Roger D  
 ; APPLICANT: Mountjoy, Kathleen G  
 ; TITLE OF INVENTION: Melanocyte Stimulating Hormone Receptor  
 ; TITLE OF INVENTION: and Uses  
 ; NUMBER OF SEQUENCES: 8  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff  
 ; STREET: 300 South Wacker Drive  
 ; CITY: Chicago  
 ; STATE: IL  
 ; COUNTRY: USA  
 ; ZIP: 60606  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/466,906B  
 ; FILING DATE: 06-JUN-1995  
 ; CLASSIFICATION: 530  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: No. 5849871nan, Kevin E  
 ; REGISTRATION NUMBER: 35,303  
 ; REFERENCE/DOCKET NUMBER: 92,154-H  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 312-913-0001  
 ; TELEFAX: 312-913-0002  
 ; TELEX:  
 ; INFORMATION FOR SEQ ID NO: 3:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1260 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA to mRNA  
 ; FEATURE:  
 ; NAME/KEY: 5'UTR  
 ; LOCATION: 1..14  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: 15..959  
 ; FEATURE:  
 ; NAME/KEY: 3'UTR  
 ; LOCATION: 960..1260  
 ; US-08-466-906B-3

Alignment Scores:  
 Pred. No.: 142 Length: 1260  
 Score: 8.00 Matches: 8  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 1.37% Indels: 0  
 DB: 2 Gaps: 0

US-09-864-711-14 (1-585) x US-08-466-906B-3 (1-1260)

QY 250 ThrThrSerLeuThrCysSerSer 257  
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 Db 358 AACACCTCATTCAGCGTGCATCT 381

RESULT 9

US-08-706-281A-3  
 ; Sequence 3, Application US/08706281A  
 ; Patent No. 6100048  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Cone, Roger D  
 ; APPLICANT: Fan, Wei  
 ; APPLICANT: Boston, Bruce A  
 ; APPLICANT: Kesterton, Robert A  
 ; APPLICANT: Lu, Dongsi  
 ; APPLICANT: Chen, Wenbiao  
 ; TITLE OF INVENTION: Methods and Reagents for Discovering and  
 ; TITLE OF INVENTION: Using Mammalian Melanocortin Receptor Agonists and Antagon:  
 ; NUMBER OF SEQUENCES: 19  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff  
 ; STREET: 300 South Wacker Drive  
 ; CITY: Chicago  
 ; STATE: IL  
 ; COUNTRY: USA  
 ; ZIP: 60606  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/706,281A  
 ; FILING DATE: 04-SEP-1996  
 ; CLASSIFICATION: 435  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: No. 6100048nan, Kevin E  
 ; REGISTRATION NUMBER: 35,303  
 ; REFERENCE/DOCKET NUMBER: 96,886  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 312-913-0001  
 ; TELEFAX: 312-913-0002  
 ; TELEX:  
 ; INFORMATION FOR SEQ ID NO: 3:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1260 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA to mRNA  
 ; FEATURE:  
 ; NAME/KEY: 5'UTR  
 ; LOCATION: 1..14  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: 15..959  
 ; FEATURE:  
 ; NAME/KEY: 3'UTR  
 ; LOCATION: 960..1260  
 ; US-08-706-281A-3

Alignment Scores:  
 Pred. No.: 142 Length: 1260  
 Score: 8.00 Matches: 8  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 1.37% Indels: 0  
 DB: 3 Gaps: 0

US-09-864-711-14 (1-585) x US-08-706-281A-3 (1-1260)

QY 250 ThrThrSerLeuThrCysSerSer 257  
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 Db 358 AACACCTCATTCAGCGTGCATCT 381

RESULT 10

US-09-201-746-3  
 ; Sequence 3, Application US/09201746



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;
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60606
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/353,099
; FILING DATE: 14-Sep-1999
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/706,281
; FILING DATE: 04-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 6476187nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 96,886
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-913-0001
; TELEFAX: 312-913-0002
; TELEX: <Unknown>
;
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1260 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..14
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 15..959
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: 960..1260
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
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; US-09-353-099-3
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; Alignment Scores:
; Pred. No.: 142 Length: 1260
; Score: 8.00 Matches: 8
; Percent Similarity: 100.00% Conservative: 0
; Best Local Similarity: 100.00% Mismatches: 0
; Query Match: 1.37% Indels: 0
; DB: 4 Gaps: 0
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; US-09-864-711-14 (1-585) x US-09-353-099-3 (1-1260)
;
; Qy 250 ThrThrSerLeuThrCysSerSer 257
; Db 358 ACAACCTCATGACGTGCTCACT 381
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; RESULT 13
; US-09-353-099-3
; Sequence 2, Application US/08506340A
; Patent No. 5846810
; GENERAL INFORMATION:
; APPLICANT: Yano, Keiichi
; APPLICANT: Yamasaki, Motoo
; APPLICANT: Tanaka, Keiji
; TITLE OF INVENTION: HUMAN 26S PROTEASOME SUBUNIT COMPONENTS
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FITZPATRICK, CELLA, HARPER & SCINTO
; STREET: 277 PARK AVENUE
; CITY: NEW YORK

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; STATE: NEW YORK
; COUNTRY: U.S.A.
; ZIP: 10172-0194
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/506,340A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 264810/94
; FILING DATE: 28-OCT-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lawrence S. Perry
; REGISTRATION NUMBER: 31865
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-758-2400
; TELEFAX: 212-758-2982
; TELEX: 236362
;
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2859 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; ORIGINAL SOURCE:
; ORGANISM: human
; CELL TYPE: human hepatic carcinoma cell strain HepG2
;
; US-09-506-340A-2
;
; Alignment Scores:
; Pred. No.: 314 Length: 2859
; Score: 8.00 Matches: 8
; Percent Similarity: 100.00% Conservative: 0
; Best Local Similarity: 100.00% Mismatches: 0
; Query Match: 1.37% Indels: 0
; DB: 2 Gaps: 0
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; US-09-864-711-14 (1-585) x US-09-506-340A-2 (1-2859)
;
; Qy 383 PheGluLysThrIleLeuGluSer 390
; Db 487 TTTGAAAGACCATACCTGGAGTCG 510
;
; RESULT 14
; US-09-471-112A-2
; Sequence 2, Application US/084711112A
; Patent No. 6313264
; GENERAL INFORMATION:
; APPLICANT: Molnar-Kimber, Katherine L.
; APPLICANT: Failli, Amedeo F.
; APPLICANT: Caggiano, Thomas J.
; APPLICANT: Nakanishi, Koji
; APPLICANT: Chen, Yanqiu
; TITLE OF INVENTION: EFFECTOR PROTEINS OF RAPAMYCIN
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner, L.L.P.
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30

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; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/471,112A  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/384,524  
; FILING DATE: 13-FEB-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/312,023  
; FILING DATE: 26-SEP-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/207,975  
; FILING DATE: 08-MAR-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Siekman, Michael T.  
; REGISTRATION NUMBER: 36,276  
; REFERENCE/DOCKET NUMBER: 01142.0058-00000  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-408-4000  
; TELEFAX: 202-408-4400  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3423 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: cdna to mRNA  
US-08-471-112A-2  
  
Alignment Scores:  
Pred. No.: 373 Length: 3423  
Score: 8.00 Matches: 8  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 1.37% Indels: 0  
DB: 4 Gaps: 0  
  
US-09-864-711-14 (1-585) x US-08-471-112A-2 (1-3423)  
  
Qy 197 SerThraSerGlyLeuIllegly 204  
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Db 2464 TCGACCAACTCGGGCCTCATTTGC 2487  
  
RESULT 15  
US-09-012-515A-11  
; Sequence 11, Application US/09012515A  
; Patent No. 6127521  
; GENERAL INFORMATION:  
; APPLICANT: Berlin, Vivian  
; APPLICANT: Chiu, Maria Isabel  
; APPLICANT: Cottarel, Guillaume  
; APPLICANT: Damaguez, Veronique  
; TITLE OF INVENTION: IMMUNOSUPPRESSANT TARGET PROTEINS  
; NUMBER OF SEQUENCES: 35  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
; STREET: One Post Office Square  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02109-2170  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/012,515A  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/360,144  
; FILING DATE: 20-DEC-1994

; ATTORNEY/AGENT INFORMATION:  
; NAME: Vincent, Matthew P.  
; REGISTRATION NUMBER: 36,709  
; REFERENCE/DOCKET NUMBER: APV-036.02  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-832-1000  
; TELEFAX: 617-832-7000  
; INFORMATION FOR SEQ ID NO: 11:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 5430 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: both  
; TOPOLOGY: linear  
; MOLECULE TYPE: cdna  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..5427  
US-09-012-515A-11  
  
Alignment Scores:  
Pred. No.: 584 Length: 5430  
Score: 8.00 Matches: 8  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 1.37% Indels: 0  
DB: 3 Gaps: 0  
  
US-09-864-711-14 (1-585) x US-09-012-515A-11 (1-5430)  
  
Qy 197 SerThraSerGlyLeuIllegly 204  
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Db 4471 TCGACCAACTCGGGCCTCATTTGC 4494  
  
Search completed: October 15, 2003, 16:11:05  
Job time : 100 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: October 15, 2003, 16:03:46 ; Search time 326 Seconds  
(without alignments)

4656.333 Million cell updates/sec

Title: US-09-864-711-14

Perfect score: 585

Sequence: 1 MAAEAGNACTVSLGGANMA.....TVRFVNRADYKYQKLQNY 585

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Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1731049 seqs, 1297405648 residues

Word size: 1

Total number of hits satisfying chosen parameters: 3457416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=quality -THR MIN=1  
-ALIGN=15 -MODE=LOCAL -OUTPMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=2000000000 -USER=US09864711@cgn2\_1.164 @runat\_15102003\_111800\_14190  
-NCPU=6 -ICPU=3 -NO\_MMAP -LARGEQUERY -NEG\_SCORES=0 -WAIT -DSPBLOCK=100  
-LONGLOG -DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60  
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

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17: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	ID	Description
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2	585	100.0	2917	10	US-09-909-320-189	Sequence 189, App
3	585	100.0	2917	10	US-09-909-088B-189	Sequence 189, App
4	585	100.0	2917	10	US-09-905-291A-189	Sequence 189, App
5	585	100.0	2917	10	US-09-902-853-189	Sequence 189, App
6	585	100.0	2917	10	US-09-907-824-189	Sequence 189, App
7	585	100.0	2917	10	US-09-907-841-189	Sequence 189, App
8	585	100.0	2917	11	US-09-904-011-189	Sequence 189, App
9	585	100.0	2917	11	US-09-906-742-189	Sequence 189, App
10	585	100.0	2917	11	US-09-906-838-189	Sequence 189, App
11	585	100.0	2917	11	US-09-907-613-189	Sequence 189, App
12	585	100.0	2917	11	US-09-907-942-189	Sequence 189, App
13	585	100.0	2917	11	US-09-904-859-189	Sequence 189, App
14	585	100.0	2917	11	US-09-909-204-189	Sequence 189, App
15	585	100.0	2917	11	US-09-904-820-189	Sequence 189, App
16	585	100.0	2917	11	US-09-904-786-189	Sequence 189, App
17	585	100.0	2917	11	US-09-906-646-189	Sequence 189, App
18	585	100.0	2917	11	US-09-906-700-189	Sequence 189, App
19	585	100.0	2917	11	US-09-903-786-189	Sequence 189, App
20	585	100.0	2917	11	US-09-902-903-189	Sequence 189, App
21	585	100.0	2917	11	US-09-903-749A-189	Sequence 189, App
22	585	100.0	2917	11	US-09-904-119-189	Sequence 189, App
23	585	100.0	2917	11	US-09-904-956-189	Sequence 189, App
24	585	100.0	2917	11	US-09-902-736-189	Sequence 189, App
25	585	100.0	2917	11	US-09-907-794-189	Sequence 189, App
26	585	100.0	2917	11	US-09-903-943-189	Sequence 189, App
27	585	100.0	2917	11	US-09-904-462-189	Sequence 189, App
28	585	100.0	2917	11	US-09-907-925-189	Sequence 189, App
29	585	100.0	2917	11	US-09-902-692-189	Sequence 189, App
30	585	100.0	2917	11	US-09-903-520-189	Sequence 189, App
31	585	100.0	2917	11	US-09-905-056-189	Sequence 189, App
32	585	100.0	2917	11	US-09-909-064-189	Sequence 189, App
33	585	100.0	2917	11	US-09-904-553-189	Sequence 189, App
34	585	100.0	2917	11	US-09-905-381-189	Sequence 189, App
35	585	100.0	2917	11	US-09-905-088-189	Sequence 189, App
36	585	100.0	2917	11	US-09-907-575-189	Sequence 189, App
37	585	100.0	2917	11	US-09-905-075-189	Sequence 189, App
38	585	100.0	2917	11	US-09-902-759-189	Sequence 189, App
39	585	100.0	2917	11	US-09-902-634-189	Sequence 189, App
40	585	100.0	2917	11	US-09-902-713-189	Sequence 189, App
41	585	100.0	2917	11	US-09-907-979-189	Sequence 189, App
42	585	100.0	2917	11	US-09-902-615-189	Sequence 189, App
43	585	100.0	2917	11	US-09-903-925-189	Sequence 189, App
44	585	100.0	2917	11	US-09-906-760A-189	Sequence 189, App
45	585	100.0	2917	11	US-09-903-823-189	Sequence 189, App

ALIGNMENTS

RESULT 1

US-09-864-711-1  
; Sequence 1, Application US/09864711  
; Patent No. US20020077309A1  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkmueth, Wayne  
; APPLICANT: Klingler, Tod M.  
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS  
; FILE REFERENCE: PB-0008-1 CJP  
; CURRENT APPLICATION NUMBER: US/09/864,711  
; CURRENT FILING DATE: 2001-05-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PERL Program  
; SEQ ID NO 1  
; LENGTH: 1966  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: 223163CT1  
US-09-864-711-1

Alignment Scores:

Pred. No.:

Score:

0

585.00

Length:

1966

Matches:

585

Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 9 Gaps: 0

US-09-864-711-14 (1-585) x US-09-864-711-1 (1-1966)

QY 1 MetAlaGluAlaGluGlyAsnAlaSerCysThrValSerLeuGlyGlyAlaAsnMetAla 20  
 DB 70 ATGGCGAGGCTGAAGCAATGCAAGCTGCACATCAGTCTAGGGGGGGCCAAATATGGCA 129  
 QY 21 GluThrHisLysAlaMetIleLeuGlnLeuAsnProSerGluAsnCysThrTrpThrIle 40  
 DB 130 GAGACCCACAAAGCCATGATCTGCAACTCAATCCAGTGGAGAACTGCACCTGGACAATA 189  
 QY 41 GluArgProGluAsnLysSerIleArgIlePheSerTyrValGlnLeuAsnProAsp 60  
 DB 190 GAAAGACCAGAAACAAAGCATCAGAAATATCTTTCTATGTCCTGATCCAGCTTGAATCCAGAT 249  
 QY 61 GlySerCysGluSerGluAsnIleLysValPheAspGlyThrSerSerAsnGlyProLeu 80  
 DB 250 GGAAGCTGTGAAGTGAAGCATTAAGTCTTTCAGCGAACCTCCAGCAATGGGCCCTCTG 309  
 QY 81 LeuGlnValCysSerLysAsnAspTyrValProValPheGluSerSerSerThr 100  
 DB 310 CTAGGCGAAGCTGCAGTAAACAGCACTATGTTCTGTATTTGAATCATCATCCAGTACA 369  
 QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPheTyr 120  
 DB 370 TTGACGTTTCAATAGTTACTGACTCAGCAAGAAATTCAGAGAACTGTCTTGTCTTCTAC 429  
 QY 121 TyrPheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140  
 DB 430 TACTTCTCTCTCTCAACATCTCTATTCACAACTGTGGCGTTTACCTGGATACCTTGGAA 489  
 QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValTrp 160  
 DB 490 GGAATCTTCACACGCCCAATACCAAGCGCATCTCTGAGTGGCTTATGTGTGG 549  
 QY 161 HisIleGlnValGluLysAspTyrLysIleLysLeuAsnPheLysGluIlePheLeuGlu 180  
 DB 550 CACATACAGAGTGGAGAAAGATACAGATAAACTCAAACTCAAGAGATTTTCTCTAGAA 609  
 QY 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200  
 DB 610 ATAGCAAAACAGTGCBAATTTGATTTCTTCCCATCATGATGGCCCTCCACCACTCT 669  
 QY 201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSerSerAsnSer 220  
 DB 670 GGCCTGATTGGACAAGTCTGGCGGTGTGACTCCCACTTCGAATCGTCATCAAACTCT 729  
 QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240  
 DB 730 CTGACTGTGGTGTCTACAGATATGCAATATGCCAATTTCTACCGGGGATTTCTGCTCTCTAC 789  
 QY 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260  
 DB 790 ACCTCAATTTATGCAGAAACATCAACACTACATCTTTAACTGTCTCTCTGCAGAGGATG 849  
 QY 261 ArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnCysGlyAsnLeuGln 280  
 DB 850 AGAGTATATATAGCAAACTCTACCTAGAGGCTTTTAACTCTAATGGGAATAAATCTGCAA 909  
 QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300  
 DB 910 CTAAAGACCACTTCAGACCAAAATATCAAAATTTGTGGAAATTTCTGTCTCTCTT 969  
 QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsnIleIle 320  
 DB 970 AATGGATGTGTACAAATCAGAAAGGTAGAAGATCAGTCAATTTACTTACCAATAATAATC 1029  
 QY 321 ThrPheSerAlaSerSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleIle 340

DB 1030 ACCTTTCTGCACTCTCAACTCTGAAGTGCATCCCGTCAAGAAACAACTCCAGATTATT 1089  
 QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspAsp 360  
 DB 1090 GTGAAGTGTGAATGGACATAAATCTTACAGTGGAGATAATATACATAACAGAGATGAT 1149  
 QY 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380  
 DB 1150 GTAATCAAGTCAAAATGCACTGGCAATATAAACACACAGCATGGCTCTTTTGAATCC 1209  
 QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
 DB 1210 AATTCATTTGAAAGACTATATCTTGAATCACCATATATGTGGATTTGAACCAACTCTT 1269  
 QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420  
 DB 1270 TTTGTTCAAATAGTCTGCACACTCAGATCCAAATTTGGTGGTGTCTTGTATACCTGT 1329  
 QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440  
 DB 1330 AGAGCTCTCCCACTCTGACTTTGTCATCTCCAACTACGACCTAATCAAGATGGATGT 1389  
 QY 441 SerArgAspGluThrCysGlyValTyrProLeuPheGlyHisTyrGlyArgPheGlnPhe 460  
 DB 1390 AGTCGAGATGAACCTGTGAAGTGTATCCCTTATTTGGACACTATGGAGATTTCCAGTTT 1449  
 QY 461 AsnAlaPheLysPheLeuArgSerMetSerValTyrLeuGlnCysLysValLeuIle 480  
 DB 1450 AATGCCITTAATTTCTTGAGAGATATGAGCTCTGTGATCTGCACTGTAAGTTTGATA 1509  
 QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
 DB 1510 TGTGATAGCAGTGAACCACTCTCGCTGCAATCAAGTGTGTCTCTCCAGAACCAAGA 1569  
 QY 501 AspIleSerSerTyrLysTrpLysThrAspSerIleIleGlyProIleArgLeuLysArg 520  
 DB 1570 GACATTTCTCATATAAATGGAACAGATTCATCATAGAACCCATCTCTCGAAGAG 1629  
 QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540  
 DB 1630 GATCGAAGTGAAGTGGCAATTCAGGATTTTCAGCATGAACACATGGGGAAGAACTCCA 1689  
 QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
 DB 1690 AACGAGCTTTCAACAGTGTGCATCTCTTCTCTGTGGTCTAGCTCTGAATGGTG 1749  
 QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrThrLysTyrGln 580  
 DB 1750 ACTGTAGCGCAATCAACAGTGAAGGATTTGTAAATCAACGGCGAGACTACAAATACCA 1809  
 QY 581 LysLeuGlnAsnTyr 585  
 DB 1810 AAGCTGCGAATAT 1824

RESULT 2  
 US-09-909-320-189  
 ; Sequence 189, Application US/09909320  
 ; Patent No. US20020132240A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Genentech, Inc.  
 ; APPLICANT: Ashkenazi, Avi  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Inc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Flivaroff, Ellen  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, A.  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, Christopher J.

>	APPLICANT:	Gurney, Austin L.
>	APPLICANT:	Hillan, Kenneth, J.
>	APPLICANT:	Kijavin, Ivar J.
>	APPLICANT:	Macher, Jennie P.
>	APPLICANT:	Pan, James
>	APPLICANT:	Paoni, Nicholas F.
>	APPLICANT:	Roy, Margaret Ann
>	APPLICANT:	Stewart, Timothy A.
>	APPLICANT:	Tumas, Daniel
>	APPLICANT:	Williams, P. Mickey
>	APPLICANT:	Wood, William, I.
>	TITLE OF INVENTION:	Secreted and Transmembrane Polypeptides and Nucleic
>	TITLE OF INVENTION:	Acids Encoding the Same
>	FILE REFERENCE:	10466-14
>	CURRENT APPLICATION NUMBER:	US/09/909,320
>	CURRENT FILING DATE:	2002-01-04
>	PRIOR APPLICATION NUMBER:	PCT/US00/04414
>	PRIOR FILING DATE:	2000-02-22
>	PRIOR APPLICATION NUMBER:	US 60/143,048
>	PRIOR FILING DATE:	1999-07-07
>	PRIOR APPLICATION NUMBER:	US 60/145,698
>	PRIOR FILING DATE:	1999-07-26
>	PRIOR APPLICATION NUMBER:	US 60/146,222
>	PRIOR FILING DATE:	1999-07-28
>	PRIOR APPLICATION NUMBER:	PCT/US99/20594
>	PRIOR FILING DATE:	1999-09-08
>	PRIOR APPLICATION NUMBER:	PCT/US99/20944
>	PRIOR FILING DATE:	1999-09-13
>	PRIOR APPLICATION NUMBER:	PCT/US99/21090
>	PRIOR FILING DATE:	1999-09-15
>	PRIOR APPLICATION NUMBER:	PCT/US99/21547
>	PRIOR FILING DATE:	1999-09-15
>	PRIOR APPLICATION NUMBER:	PCT/US99/23089
>	PRIOR FILING DATE:	1999-10-05
>	PRIOR APPLICATION NUMBER:	PCT/US99/28214
>	PRIOR FILING DATE:	1999-11-29
>	PRIOR APPLICATION NUMBER:	PCT/US99/28313
>	PRIOR FILING DATE:	1999-11-30
>	PRIOR APPLICATION NUMBER:	PCT/US99/28564
>	PRIOR FILING DATE:	1999-12-02
>	PRIOR APPLICATION NUMBER:	PCT/US99/28565
>	PRIOR FILING DATE:	1999-12-02
>	PRIOR APPLICATION NUMBER:	PCT/US99/30095
>	PRIOR FILING DATE:	1999-12-16
>	PRIOR APPLICATION NUMBER:	PCT/US99/30911
>	PRIOR FILING DATE:	1999-12-20
>	PRIOR APPLICATION NUMBER:	PCT/US99/30999
>	PRIOR FILING DATE:	1999-12-20
>	PRIOR APPLICATION NUMBER:	PCT/US00/00219
>	PRIOR FILING DATE:	2000-01-05
>	NUMBER OF SEQ ID NOS:	423
>	SEQ ID NO	189
>	LENGTH:	2917
>	TYPE:	DNA
>	ORGANISM:	Homo sapiens
>	US-09-909-320-189	
Alignment Scores:		
Pred. No.:	0	Length: 2917
Score:	585.00	Matches: 585
Percent Similarity:	100.00%	Conservative: 0
Best Local Similarity:	100.00%	Mismatches: 0
Query Match:	100.00%	Indels: 0
Db:	10	Gaps: 0
US-09-864-711-14 (1-585) x US-09-909-320-189 (1-2917)		
Oy	1	MetaLagLuAlaGluGlvsAlaserCysThrValSerLeuGlyAlaAsnMetAla 20
Db	1030	ATGGCGAGGCTGAAGGCATTGCCAGTTCACAGTCGTGGGGSTGCCAATATGGCA 1089
Oy	21	GluthrHisLySalaMetIleLeuGlnateAsnPserScIbaAsnCysfThrpThrIle 40

QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420  
Db 2230 TTTGTTCAAGTTTATGTCGACACCTCCAGATCCAAATTTGGTGGTCTTTCTTGATACCTGT 2289  
QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuLeuLeuSerGlyCys 440  
Db 2290 AGAGGCTCTCCACCTCTGACCTTGCATCTCCAACTAGACCTAATCAAGAGTGATGT 2349  
QY 441 SerArgAspGlnThrCysLysValTyrProLeuPheClyHisTyrGlyArgPheGlnPhe 460  
Db 2350 AGTCGAGTGAACCTTGTAAAGTGTATCCCTTATTTGGACACTATGGAGATTCAGTTT 2409  
QY 461 AsnAlaPheLysPheLeuArgSerMetSerValTyrLeuGlnCysLysValLeuLeu 480  
Db 2410 RATGCCCTTAAATCTTGAGAGTATGAGCTGTGTCTGCTGAGTGTAAAGTTTGATA 2469  
QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnCysValSerArgSerLysArg 500  
Db 2470 TGTGATGACAGTGACACCACTGCTCGCTGCAATCAAGGTTGTCTCTCCAGAACCAACGA 2529  
QY 501 AspLeuSerSerTyrLysTrpLysThrAspSerIleLeuGlyProLeuArgLeuLysArg 520  
Db 2530 GACATTTCTCATATATATATGAAACAGATTCATCAGACCATTCGCTGCTGAAAGG 2589  
QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGlnThrHisAlaGlnGluThrPro 540  
Db 2590 GATCGAAGTGAAGTGCAGTTCAGGATTCAGCATGAACACATGCGGAAGAACTCCA 2649  
QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
Db 2650 AACCAAGCTTTCAACAGTGAGCATGCTGTTTCTTCATGTTCTAGCTGAGTGGTG 2709  
QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580  
Db 2710 ACTGTAGCGACAATCACAGTGAGGCAATTTGTAATCAACGGGCGAGACTACAAATACAG 2769  
QY 581 LysLeuGlnAsnTyr 585  
Db 2770 AAGTGCAGAACTAT 2784

RESULT 3  
US-09-909-088B-189  
Sequence 189, Application US/09909088B  
Patent No. US20020146709A1  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Kather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/909,088B  
CURRENT FILING DATE: 2001-07-18  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/28565  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30911  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US00/00219  
PRIOR FILING DATE: 2000-01-05  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 189  
LENGTH: 2917  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-909-088B-189  
Alignment Scores:  
Pred. No.: 0 Length: 2917  
Score: 585.00 Matches: 585  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 10 Gaps: 0  
US-09-864-711-14 (1-585) x US-09-909-088B-189 (1-2917)  
QY 1 MetaAlaGluAlaGluLysAlaSerCysThrValSerLeuGlyGlyAlaAsnMeta 20  
Db 1030 ATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCACTAGGGGTGCCATATGGA 1089  
QY 21 GluThrHisLysAlaMetIleLeuGlnLeuAsnProSerGluAsnCysThrThrIle 40  
Db 1090 GAGACCCACAAAGCCATGATCTGCAACTCAATCCAGTGAAGAACTGCACTGGCAATA 1149  
QY 41 GluArgProGluAsnLysSerIleArgIleIlePheSerTyrValGlnLeuAspProAsp 60  
Db 1150 GAAAGACCAGAAACAAAGCATCAGAAATATCTTTCTATGTCAGCTGATCCAGAT 1209  
QY 61 GlySerCysGluSerGluAsnIleLysValPheAspGlyThrSerSerAsnGlyProLeu 80  
Db 1210 GGAAGCTGTGAAGTGAAGCAATTAAGTCTTTGACGGAACTCCAGCAATGGCCCTCG 1269  
QY 81 LeuGlyGlnValCysSerIysAsnAspTyrValProValPheGluSerSerSerThr 100  
Db 1270 CTAGGCGAAGTGTGAGTAAAAAGCACTATGTTCTCTGTATTTGAATCATCATCCAGTACA 1329

QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPheTyr 120  
 DB 1330 TTGAGCTTTCAATAGTACTGACTACGACGAAGAATCAAAAGAACTGCTTTGTCTTAC 1389  
 QY 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140  
 DB 1390 TACTTCTCTCTCTACATCTCTATTCAAACTGTGGCGTTACCTGGATACCTTGGAA 1449  
 QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValTyr 160  
 DB 1450 GGATCCTTCACAGCCCAATTAACCAAGCCGATCCTGAGCTGGCTATTGTGTGG 1509  
 QY 161 HisIleGlnValGluAspTyrIleLysIleAsnPhenLeuGluIlePheLeuGlu 180  
 DB 1510 CACATCAAGTGGAGAAGATTACAAGATAAATCAACTTCAAGAGATTTCCTAGAA 1569  
 QY 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200  
 DB 1570 ATAGCAACACAGTCAAAATTTGATTTCTTGCCATCTATGATGGCCCTCCCAACTCT 1629  
 QY 201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSerAsnSer 220  
 DB 1630 GGCTGATGGACAGTCTGTGGCGGTGACTCCCACTCGAATCGCAATCAAACTCT 1689  
 QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240  
 DB 1690 CTGACTGCTGTGCTCTACAGATTATGCCAATTTCTTACCGGGGATTTCTCTCTAC 1749  
 QY 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260  
 DB 1750 ACCTCAATTTATGACAGAAACATCAACACTACATCTTTAACTTGCTCTCTGACAGGATG 1809  
 QY 261 ArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnAsnLeuGln 280  
 DB 1810 AGAGTTATTATAGCAATCTCTACCTAGAGCTTTTAACTTAATGGGAATTAATCTGGCA 1869  
 QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300  
 DB 1870 CTAAAGACCCAACTTGACAGACCAAAATATCAAAATGTGTGGAATTTCTGTCTCTCT 1929  
 QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrThrAsnIleIle 320  
 DB 1930 AATGGATGGTACAAATCAGAAAGGTAGAGATCAGTCAATTAATCAACCAATATAATC 1989  
 QY 321 ThrPheSerAlaSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleIle 340  
 DB 1990 ACCTTTCTGCACTCTCAACTTCTGAAGTGATCACCCTCAGAAACAACTCCAGATTATT 2049  
 QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspAsp 360  
 DB 2050 GTGAAGTGTGAATGGGACATAATTTCTCAGTGGAGATAATATACATAACAGAAGATGAT 2109  
 QY 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380  
 DB 2110 GTAATACAAGTCAAAATGCACTGGCAATATACACCAAGCATGGCTCTTTTGAATCC 2169  
 QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
 DB 2170 AATTCATTTGAAAGACATATCTTGAATCACCATAATATGTGGATTTTGAACCAAACTCT 2229  
 QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420  
 DB 2230 TTGTTCAGTTAGTCTGCACCTCAGATCCCAATTTGGTGGTTCCTTGATACCTGT 2289  
 QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440  
 DB 2290 AGACCTCTCCCACTCTGACTTTGCATCTCCAACTCAGACCTCAATCAAGAGTGGATCT 2349  
 QY 441 SerArgAspGluThrCysLysValTyrProLeuPheGlyHisTyrGlyArgPheGlnPhe 460  
 DB 2350 AGTCGATGAACCTTTGAAGGTGTATCCCTTATTTGGACATATGGGAGATTCCAGTTT 2409

QY 461 AsnAlaPheLysPheLeuArgSerMetSerValTyrLeuGlnCysLysValLeuIle 480  
 DB 2410 AATGCCTTTAAATCTTGAAGATGAGCTCTGTATCTCAGTGAAGTTTGATA 2469  
 QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
 DB 2470 TGTGATAGCAGTGACCACTCTCGTGCATCAATCAAGTTGTCTCCAGAACCAACGA 2529  
 QY 501 AspIleSerSerTyrLysTrpLysThrAspSerIleIleGlyProIleArgLeuLysArg 520  
 DB 2530 GACATTTCTTCATATAAATGGAACAGATTCATATAGGACCATTCGTTCTGAAAGG 2589  
 QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540  
 DB 2590 GATCGAAGTCCAGTGGCAATTCAGGATTCAGCATGAAACACATGCGGAGAACTCCA 2649  
 QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
 DB 2650 AACCAAGCTTTCAACAGTGTGCATCTGTTTTCCTTCATGCTTCTAGCTCTGAATGGTG 2709  
 QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580  
 DB 2710 ACTGTACGCAATACATGAGGCAATTTGTAAATCAACGGGACAGACTACAAATACAG 2769  
 QY 581 LysLeuGlnAsnTyr 585  
 DB 2770 AAGCTCGCAACTAT 2784

## RESULT 4

US-09-905-291A-189  
 ; Sequence 189, Application US/09905291A  
 ; Patent No. US20020160374A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Genentech, Inc.  
 ; APPLICANT: Ashkenazi, Avi  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, A.  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, Christopher J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Hillan, Kenneth, J.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Mather, Jennie P.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William, I.  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; FILE REFERENCE: 10466-14  
 ; CURRENT APPLICATION NUMBER: US/09/905,291A  
 ; CURRENT FILING DATE: 2001-07-12  
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414  
 ; PRIOR FILING DATE: 2000-02-22  
 ; PRIOR APPLICATION NUMBER: US 60/143,048  
 ; PRIOR FILING DATE: 1999-07-07  
 ; PRIOR APPLICATION NUMBER: US 60/145,698  
 ; PRIOR FILING DATE: 1999-07-26  
 ; PRIOR APPLICATION NUMBER: US 60/146,222  
 ; PRIOR FILING DATE: 1999-07-28  
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594  
 ; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944  
 ; PRIOR FILING DATE: 1999-09-13  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090  
 ; PRIOR FILING DATE: 1999-09-15  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547  
 ; PRIOR FILING DATE: 1999-09-15  
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089  
 ; PRIOR FILING DATE: 1999-10-05  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214  
 ; PRIOR FILING DATE: 1999-11-29  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313  
 ; PRIOR FILING DATE: 1999-11-30  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564  
 ; PRIOR FILING DATE: 1999-12-02  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565  
 ; PRIOR FILING DATE: 1999-12-02  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095  
 ; PRIOR FILING DATE: 1999-12-16  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911  
 ; PRIOR FILING DATE: 1999-12-20  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999  
 ; PRIOR FILING DATE: 1999-12-20  
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219  
 ; PRIOR FILING DATE: 2000-01-05  
 ; NUMBER OF SEQ ID NOS: 423  
 ; SEQ ID NO 189  
 ; LENGTH: 2917  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-905-291A-189

## Alignment Scores:

Pred. No.: 0 Length: 2917  
 Score: 585.00 Matches: 585  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 Db: 10 Gaps: 0

US-09-864-711-14 (1-585) x US-09-905-291A-189 (1-2917)

QY 1 MetAlaGluAlaGluGlyAsnAlaSerCysThrValSerLeuGlyGlyAlaAsnMetAla 20  
 Db 1030 ATGGCGGAGGCTGAGGCAATGCAAGCTGCACATGCTAGCTAGGGGGTCCCAATATGCCA 1089  
 QY 21 GluThrHisLysAlaMetLeuGluInLeuAsnProSerGluAsnCysThrThrIle 40  
 Db 1090 GAGACCCCAAGAGCCATGATCTGCAACTCAATCCAGTCAGAACTGCACCTGGACAATA 1149  
 QY 41 GluArgProGluAsnLysSerIleArgIleIlePheSerTyrValGluInLeuAspProCys 60  
 Db 1150 GAAAGACCGAAGCAAAAGCATCAGAAATATCTTTCCATGTCCAGCTTGATCCASAT 1209  
 QY 61 GlySerCysGluSerGluAsnLysValPheAspGlyThrSerSerAsnGlyProLeu 80  
 Db 1210 GGAAGCTGTGAAGTGAAGCAAAATTAAGTCTTTCAGCGAAGCTCCAGCAATGGGCGCTGTG 1269  
 QY 81 LeuGlyGluValCysSerLysAsnAspTyrValProValPheGluSerSerSerThr 100  
 Db 1270 CTAGGCGAGGCTCCAGTAAACAGCATATGTTCTGTATTTCAATCAATCATCCAGTACA 1329  
 QY 101 LeuThrPheGluInLeuValThrAspSerAlaArgIleGluArgThrValPheValPheTyr 120  
 Db 1330 TTGACGTTTCAATAGTTACTGACTCAGCAAGAAATTCAAAGAACTGTCTTTGTCTCTAC 1389  
 QY 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140  
 Db 1390 TACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1449  
 QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValTyr 160  
 Db 1450 GGATCTCTCACCCACCCCAATATACCAAGCCGCATCTCTGAGCTGGCTTATTTGTGTGG 1509

QY 161 HisIleGluValGluLysAspTyrLysIleLysLeuAsnPheLysGluIlePheLeuGlu 180  
 Db 1510 CACATCAAGTGGAGAAAGATTACAAGATAAACTTCAAGAGATTTTCTCTAGAA 1569  
 QY 181 IleAspLysGluCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200  
 Db 1570 ATAGCAAAACAGTGCATTTGATTTTCTGCACTATGATGCCCCCTCCCAACACTCT 1629  
 QY 201 GlyLeuIleGlyGluValCysGlyArgValThrProThrPheGluSerSerSerAsnSer 220  
 Db 1630 GGCTGATTTGGACAAGTCTGTGCGCGTGTGACTCCCACTTCGAATCGTCATCAAACTCT 1689  
 QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240  
 Db 1690 CTGACTGTCTGTCTGTCTACAGATTATGCCAATTTTACCGGGGATTTCTGCTTCCCTAC 1749  
 QY 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerSerArgMet 260  
 Db 1750 ACCTCAATTTATGCAAAACATCAACATCATCTTTAACTTGTCTCTCTGACAGGATG 1809  
 QY 261 ArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnLeuGlu 280  
 Db 1810 AGAGTTATTATTAAGCAAACTCTACCTAGAGGCTTTAACTCTAATGGGAATAACTTGCAA 1869  
 QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300  
 Db 1870 CTRAAAGACCCAACTTGCAGACCAAAATATCAATGTTGTGGAAATTTCTGTCTCTCT 1929  
 QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGluInSerIleThrThrAsnIleIle 320  
 Db 1930 AATGGATGTGGTACCAATCAGAAAGGTAGAGATCAGTCAATTAATACCAATAATC 1989  
 QY 321 ThrPheSerAlaSerSerThrSerGluValIleThrArgGluInLysGluInLeuIleIle 340  
 Db 1990 ACCTTTCTGCATCTCTCACTCTGAGTGATCACCCTCAGAACCACTCCAGATTAT 2049  
 QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspAsp 360  
 Db 2050 GTGAAGTGTGAATGGGACATAATTTCTACAGTGGAGATAATATACATACAGAAATGAT 2109  
 QY 361 ValIleGluSerGluAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380  
 Db 2110 GTAAATCAAGTCAAAATGCACTGGCAATATACACCAACATGGCTCTTTTGAATCC 2169  
 QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGluInThrLeu 400  
 Db 2170 AATTCATTTGAAAGAGACTATCTTGAATCACCATAATATGATGGATTTTGAACCAACTCT 2229  
 QY 401 PheValGluValSerLeuHisThrSerAspProAsnLeuValPheLeuAspThrCys 420  
 Db 2230 TTGTTCATAGTATGCTGCACACCTCAGATCCAAATTTGGTGGTGTCTTGTGATCTGT 2289  
 QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerglyCys 440  
 Db 2290 AGAGCTCTCCCACTCTGACTTTGCACTTCCAACTCCAGCTTAAATCAAGATGGATGT 2349  
 QY 441 SerArgAspGluThrCysLysValTyrProLeuPheGlyHisTyrGlyArgPheGluPhe 460  
 Db 2350 AGTGGAGTGAACCTGTAGGTGTATCCCTTATTTGGACACTATGGGATTTCCAGTTT 2409  
 QY 461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyrLeuGluInCysLysValLeuIle 480  
 Db 2410 AATGCCTTTAAATTTCTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAAAGTTTGATA 2469  
 QY 481 CysAspSerSerAspHisGluSerArgCysAsnGluInGlyCysValSerArgSerLysArg 500  
 Db 2470 TGTGTAGCAGTGACCACTCTCGTGCATCAAGGTGTGTCTGTCTCCAGAGCAACGA 2529  
 QY 501 AspIleSerSerTyrLysThrLysThrAspSerIleIleGlyProIleArgLeuLysArg 520  
 Db 2530 GACATTTCTTATATAATGAAACAGATTCATCATAGACCCATCTCTCTGAAAGG 2589  
 QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGluInHisGluThrHisAlaGluGluThrPro 540

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Db 2590 GATCGAAGTGAAGTGGCAATCAGGATTCAGCATGAACACATGGGGAAGAACTCCA 2649
QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560
Db 2650 AACCAAGCCCTTCACAGTGGTCATCTGTTTCTTCATGGTTCATGCTCGAATGGGTG 2709
QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580
Db 2710 ACTGTAGGCACATCAGTGGCATTTTGTAAATCATACCGGGGAGACTACAAATACAG 2769
QY 581 LysLeuGlnAsnTyr 585
Db 2770 AAGTCGACAGACTAT 2784
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## RESULT 5

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US-09-853-189
; Sequence 189, Application US/0902853
; Publication No. US20020192659A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,853
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
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; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-902-853-189

Alignment Scores:
Pred. No.: 0 Length: 2917
Score: 585.00 Matches: 585
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-09-864-711-14 (1-585) x US-09-902-853-189 (1-2917)

QY 1 MetAlaGluAlaGluGlyAsnAlaSerCysThrValSerLeuGlyGlyAlaAsnMetAla 20
Db 1030 ATGGCGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGTCGCAATATGGCA 1089
QY 21 GluThrHisLysAlaMetIleLeuGlnLeuAsnProSerGluAsnCysThrTrpThrIle 40
Db 1090 GAGACCCACAAAGCCATGATCTGCAACCAATCCAGCTGAGAACTGCACTGGACAATA 1149
QY 41 GluArgProGluAsnLysSerIleArgIleIlePheSerTyrValGlnLeuAspProAsp 60
Db 1150 GAAAGACCAAGAAAACAAAGCATCAGAAATATCTTTTCTATGTCACAGCTTGATCCAGAT 1209
QY 61 GlySerCysGluSerGluAsnIleLysValPheAspGlyThrSerSerAsnGlyProLeu 80
Db 1210 GGAAGCTGTGAAGTGAAGAAACATTAAGTCTTTGACGGAACCTCCAGCAATGGGCTCTG 1269
QY 81 LeuGlyGlnValCysSerLysAsnAspTyrValProValPheGluSerSerSerSerThr 100
Db 1270 CTAGGCGAAGTCTGCAGTAAACAGCACTATGTTCTGTATTGATCATCATCCAGTACA 1329
QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPheTyr 120
Db 1330 TTGACGTTTCAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGCTTTTGTCTCTAC 1389
QY 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140
Db 1390 TACTTCTCTCTCCATACATCTCTATTCCAAACTGTGGCGGTACCGGATACCTTGGAA 1449
QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValTrp 160
Db 1450 GGATCCTTCACCGCCCAATTACCAAAAGCGCATCTCTGAGCTGGCTTATTGTGTGG 1509
QY 161 HisIleGlnValGluLysAspTyrLysIleLysLeuAsnPheLysGluIlePheLeuGlu 180
Db 1510 CACATACAAGTGGAGAAGAGATTACAAGATAAACTTCAAGAGAGATTTCCTCTAGAA 1569
QY 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200
Db 1570 ATAGACAAACAGTGCATTTGATTTTCTTGCCATCTATGATGGCCCTCCACCACTCT 1629
QY 201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSerSerAsnSer 220
Db 1630 GGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACTCCGAATCGTCAATCAACACT 1689
QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240
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Db 1690 CTGACTCTGCTGTTGCTACAGATTATGCCAATCTTACCGGGGATTTCTGCTTCCTAC 1749  
 QY 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260  
 Db 1750 ACCTCATTATGCGAAGAACATCAACACTACATCTTTAACTGCTCTTCTGACAGATG 1809  
 QY 261 ArgValIleSerIleSerTyrIleuGluAlaPheAsnSerAsnGlyAsnAsnLeuGln 280  
 Db 1810 AGAGTTTATTATAGCAATCTTACCTAGAGGCTTTTAACTCTAATGGGAATACTTGCAA 1869  
 QY 281 LeuLysAspProThrCysArgProLysIleuSerAsnValValGluPheSerValProLeu 300  
 Db 1870 CTAAGACCCACTTGACAGCAAAATATCAAAATGTGTGGATTTCTGCTCCTCTT 1929  
 QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsnIleIle 320  
 Db 1930 AATGGATGTGTTACATCAGAAAGTAAAGATCAGTCAATTAATTAATCAACCAATAATC 1989  
 QY 321 ThrPheSerAlaSerThrSerGluValIleThrArgGlnLysGlnLeuIleIle 340  
 Db 1990 ACCTTTCTGCATCCCTCACTTCTGAAGTGCATCCCGTCAGAAACAACTCCAGATTAT 2049  
 QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleIleTyrIleThrGluAsp 360  
 Db 2050 GTGAAGTGTGAATGGACATTAATCTACAGTGAGATTAATATACATAACAGAGATGAT 2109  
 QY 361 ValIleGlnSerGlnAsnAlaLeuGlySerThrAsnThrSerMetAlaLeuPheGlnSer 380  
 Db 2110 GTAATACAAAGTCAAAATGCATGGGCAATATATAACACCATGGCTCTTTTGAATCC 2169  
 QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
 Db 2170 AATTCATTCAAAAGACTATATCTGAATCACCATTATATGTGATTTGAACAACTCTT 2229  
 QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAsnThrCys 420  
 Db 2230 TTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTCTTTCTTGATACCTGT 2289  
 QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440  
 Db 2290 AGAGCCCTCCACCTCTGACCTTGCATCTCCACCTACAGCTAATCAAGAGTGGATGT 2349  
 QY 441 SerArgAspGluThrCysLysValTyrProLeuPheClyHisTyrGlyArgPheGlnPhe 460  
 Db 2350 AGTCAGATGAAACTTGTAGGTGTATCCCTTATTTGGACACTATGGAGATTCAGTTT 2409  
 QY 461 AsnAlaPheLysPheLeuArgSerMetSerValTyrIleuGlnCysLysValLeuIle 480  
 Db 2410 AATGCCITTAATCTTGAGAGATGATGAGCTGTGCTATCTGCAGTGTAAAGTTTGATA 2469  
 QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnCysValSerArgSerLysArg 500  
 Db 2470 TGTGATAGATGTACCACCATCTCGCTGCAATCAAGTTGTCTCCAGAGCAAGAACGA 2529  
 QY 501 AspIleSerSerTyrLysThrLysThrAspSerIleIleGlyProIleArgLeuLysArg 520  
 Db 2530 GACATTTCTTAATAAATGGAACAGATTCATAGAGCCATTCGCTCGTGAAGG 2589  
 QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGlnThrHisAlaGluGlnThrPro 540  
 Db 2590 GATCGAAGTGAAGTGCAATTCAGGATTTCCAGCATGAACATGCGGAAGAACTCCA 2649  
 QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
 Db 2650 AACCCAGCCTTCAACAGTGTGCATCTGTTTCCCTTCATGTTCTAGCTCTGAATGTGGTG 2709  
 QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580  
 Db 2710 ACTGAGCAGCAATCAGAGGAGGCAATTTGTAAATCAACGGCAGACTACAAATACCAG 2769  
 QY 581 LysLeuGlnAsnTyr 585  
 |||||

Db 2770 AAGCTGCAGAACTAT 2784  
 RESULT 6  
 US-09-907-824-189  
 ; Sequence 189, Application US/09907824  
 ; Publication No. US20020197671A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Genentech, Inc.  
 ; APPLICANT: Ashkenazi, Avi  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, A.  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, Christopher J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Hillan, Kenneth, J.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Mather, Jennie P.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William, I.  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; FILE REFERENCE: 10456-14  
 ; CURRENT APPLICATION NUMBER: US/09/907,824  
 ; CURRENT FILING DATE: 2001-07-17  
 ; PRIOR APPLICATION NUMBER: 09/665,350  
 ; PRIOR FILING DATE: 2000-09-18  
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414  
 ; PRIOR FILING DATE: 2000-02-22  
 ; PRIOR APPLICATION NUMBER: US 60/143,048  
 ; PRIOR FILING DATE: 1999-07-07  
 ; PRIOR APPLICATION NUMBER: US 60/145,698  
 ; PRIOR FILING DATE: 1999-07-26  
 ; PRIOR APPLICATION NUMBER: US 60/146,222  
 ; PRIOR FILING DATE: 1999-07-28  
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594  
 ; PRIOR FILING DATE: 1999-09-08  
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944  
 ; PRIOR FILING DATE: 1999-09-13  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090  
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 ; PRIOR APPLICATION NUMBER: PCT/US99/21547  
 ; PRIOR FILING DATE: 1999-09-15  
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089  
 ; PRIOR FILING DATE: 1999-10-05  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214  
 ; PRIOR FILING DATE: 1999-11-29  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313  
 ; PRIOR FILING DATE: 1999-11-30  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564  
 ; PRIOR FILING DATE: 1999-12-02  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565  
 ; PRIOR FILING DATE: 1999-12-02  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095  
 ; PRIOR FILING DATE: 1999-12-16  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911  
 ; PRIOR FILING DATE: 1999-12-20  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999  
 ; PRIOR FILING DATE: 1999-12-20  
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219  
 ; PRIOR FILING DATE: 2000-01-05

; NUMBER OF SEQ ID NOS: 423

; SEQ ID NO 189

; LENGTH: 2917

; TYPE: DNA

; ORGANISM: Homo Sapien

US-09-907-824-189

Alignment Scores:

Pred. No.: 0      Length: 2917  
 Score: 585.00      Matches: 585  
 Percent Similarity: 100.00%      Conservative: 0  
 Best Local Similarity: 100.00%      Mismatches: 0  
 Query Match: 100.00%      Indels: 0  
 DB: 10      Gaps: 0

US-09-864-711-14 (1-585) x US-09-907-824-189 (1-2917)

Qy 1 MetalGluAlaGluGlyAsnAlaSerCysThrValSerLeuGlyGlyAlaAsnMetAla 20  
 Db 1030 ATGGCGAGGCTGAAGCAATGCAAGCTGCACATCTAGGGGTGCCAATATGGCA 1089  
 Qy 21 GluThrHisLysAlaMetIleLeuGlnLeuAsnProSerGluAsnCysThrThrPheTrile 40  
 Db 1090 GAGACCCCAAGCCATGATCCGCACTCAATCCAGTGAGACCTGCACCTGGCAATA 1149  
 Qy 41 GluArgProGluAsnLysSerIleArgIleIlePheSerTyrValGlnLeuAspProasp 60  
 Db 1150 GAAAGACCAGAAAACAAAGCATCAGAAATATCTTTCCATGTCAGCTTCATCCAGAT 1209  
 Qy 61 GlySerCysGluSerGluAsnIleLysValPheAspGlyThrSerSerAsnGlyProLeu 80  
 Db 1210 GGAAGCTGTGAAGTGAAGAAACATTAAGTCTTTGACGGAACCTCCAGCAATGGGCTCTG 1269  
 Qy 81 LeuGlyGlnValCysSerLysAsnAspTyrValProValPheGluSerSerSerThr 100  
 Db 1270 CTAGGGCAAGCTCCACATAAAGACATATGTTCTGTATTTGAATCATCATCCAGTACA 1329  
 Qy 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPheTyr 120  
 Db 1330 TTGACGTTTCAAAATAGTTACTGACTCAGCAGAAATTCAAAGAACTGTCTTTGTCTTCTAC 1389  
 Qy 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140  
 Db 1390 TACTTCTCTCTCTACATCTCTATTCCAACCTGTGGCGGTACTCGTATACCTTGGAA 1449  
 Qy 141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValTrp 160  
 Db 1450 GGATCCTTCACAGCCCAATTACCAAGCGCATCCTGAGCTGGCTTATTTGTGTGG 1509  
 Qy 161 HisIleGlnValGluLysAspTyrLysIleLysLeuAsnPheLysGluIlePheLeuGlu 180  
 Db 1510 CACATACAAGTGGAGAAAGATTACAAGATAAAACTTAAACTTCAAGAGATTTTCTCTAGAA 1569  
 Qy 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200  
 Db 1570 ATAGCAACACAGTGCATTAATTTGATTTCTGCCATCATATGATGGCCCTCCACCAACTCT 1629  
 Qy 201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSerSerAsnSer 220  
 Db 1630 GGCTGATTGGACAGTCTGTGGCGGTGTGACTCCACCTTCGATCGTCACTCAACTCT 1689  
 Qy 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240  
 Db 1690 CTGACTGTGCTGTCTACAGATTATGCCAATTTCTTACCGGGGATTTCTGCTCTCTAC 1749  
 Qy 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerSerPargMet 260  
 Db 1750 ACCTCAATTAATGAGAAACATCAACACTACATCTTTAACTTCTCTCTGACAGGATG 1809  
 Qy 261 ArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnLeuGln 280  
 Db 1810 AGAGTTATTATTAAGCAATCTCTACCTAGAGGCTTTTAACTCTAATGGGAATTAATCTGCA 1869

Qy 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300  
 Db 1870 CTAAAGACCACTTGCAGACCAAAATATCAAAATGTTGTGGAATTTCTCTCCCTCTT 1929  
 Qy 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsnIleIle 320  
 Db 1930 AATGGATGTGTACATCAATCAGAAAGGTAGAAGATCAGTCAATTACTTACCAATAATATC 1989  
 Qy 321 ThrPheSerAlaSerSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleIle 340  
 Db 1990 ACCTTTCTGATCCTCAACTTCTGAAGTGATACCCGTCAGAAACATCTCCAGATTATT 2049  
 Qy 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspasp 360  
 Db 2050 GTGAAGTGTGAATGGGACATAATCTACAGTGGAGATATATACATAACAGAAATGAT 2109  
 Qy 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaIlePheGluSer 380  
 Db 2110 GTAATACAAAGTCAAAATGCTGGCAAAATATACACACGATGCTCTTTTGAATCC 2169  
 Qy 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
 Db 2170 AATTCATTTGAAAAGACATPACTTGAATCCCATATATGTTGATTTGAACCAACTCTT 2229  
 Qy 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420  
 Db 2230 TTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGTGTTCTTCAATACCTGT 2289  
 Qy 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440  
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 Qy 461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyrLeuGlnCysLysValLeuIle 480  
 Db 2410 AATGCTTTAAATCTTTGAGAGATATGAGCTCTGTATCTGCAAGTCTAAAGTTTGTATA 2469  
 Qy 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
 Db 2470 TGTGATAGCAGTGACCCACCTGCTCGCTCAATCAAGTTGTGTCTCCAGAGCAAAACGA 2529  
 Qy 501 AspIleSerSerTyrLysThrLysThrAspSerIleIleGlyProIleArgLeuLysArg 520  
 Db 2530 GACATTTCTCATATAATGSAACACAGATTCATCATAGGACCATTCGTCTGAAAGG 2589  
 Qy 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540  
 Db 2590 GATCGAAGTGCAGTGGCAATTCAGGATTTTCAGCATGAAACACATCGGGAAGAACTCCA 2649  
 Qy 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
 Db 2650 AACCGACCTTTCAACAGTGGCATCTGTTTCTCTCATGTTCTAGCTCTGAATGTGTG 2709  
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 Qy 581 LysLeuGlnAsnTyr 585  
 Db 2770 AAGCTGCAGAACTAT 2784

RESULT 7

US-09-907-841-189

; Sequence 189, Application US/0907841

; Publication No. US20020198366A1

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

```

; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrari, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,841
; PRIOR FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-841-189

Alignment Scores:
Pred. No.: 0 Length: 2917
Score: 585.00 Matches: 585
Percent Similarity: 100.0% Conservative: 0
Best Local Similarity: 100.0% Mismatches: 0
Query Match: 100.0% Indels: 0
DB: 10 Gaps: 0

US-09-864-711-14 (1-585) x US-09-907-841-189 (1-2917)

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Db 1030 ATGGCGAGGCTGAAGCAATTCAGAGTCACAGTCAGTCAGTGGGCTGCAATATGGCA 1089
QY 21 GluThrHisLysAlaMetIleLeuGluAsnProSerGluAsnCysThrThrIle 40
Db 1090 GAGACCCACCAAGCCATGATCTCCAACTCAATCCAGTGAAGTGCACCTGGACATTA 1149
QY 41 GluArgProGluAsnLysSerIleArgIleIlePheSerTyrValGluLeuAspProAsp 60

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Db 1150 GAAGACCAAGAAACAAAGCATCAAAATATCTTTCTATGTCACAGTGAATCAAGAT 1209
QY 61 GlySerCysGluSerGluAsnIleLysValPheAspGlyThrSerSerAsnGlyProLeu 80
Db 1210 GGAAGCTGTGAAGTGAAGAAACATTAAGTCTTTGACGGAACCTCCAGCAATGGGCTCTG 1269
QY 81 LeuGlyGluValCysSerLysAsnAspTyrValProValPheGluSerSerSerThr 100
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QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPheTyr 120
Db 1330 TTGACGTTTCAATAGTTACTGACTCAGCAAGAAATCAAGACATGCTGCTTGTCTCTAC 1389
QY 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140
Db 1390 TACTTCTTCTCCCTAACATCTCTATTCCAAACCTGCGGCTTACCTGGATACCTTGGAA 1449
QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValTyr 160
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QY 161 HisIleGlnValGluLysAspTyrLysIleLysLeuAsnPhetyGluIlePheLeuGlu 180
Db 1510 CACATACAAAGTGGAGAAAGATTACAAAGATAAACTTCAAGAGAGATTTTCTCTAGAA 1569
QY 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200
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QY 201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSerSerAsnSer 220
Db 1630 GGCTGATTGGACAGTCTGTGGCGTGAGCTCCACCTTCGAATCGTCATCAACTCT 1689
QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240
Db 1690 CTGACTGTCTGTCTGTCTACAGATTATGCCAATTTTACCAGGAGATTTCTGCTCTCTAC 1749
QY 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260
Db 1750 ACCTCAATTTATGACAGAAACATCAACATACATCTTAACTTCTCTCTGACAGATG 1809
QY 261 ArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnLeuGln 280
Db 1810 AGAGTTATTATAAGCAAACTCTACTAGAGGCTTTAACTCTAATGGGAATACTTGC 1869
QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300
Db 1870 CTAAGAGCCCAACTGACAGACCAAAATATCAATGTGTGGAAATTTCTGCTCTCT 1929
QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsnIleIle 320
Db 1930 AATGGATGTGTACAAATCAGAAAGTAGAAGATCAGTCAATTAATTACTACCAATATAATC 1989
QY 321 ThrPheSerAlaSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleIle 340
Db 1990 ACCTTTCTGCATCTCAACTCTGAAGTATCACCCTGACAGAACCACTCCAGATAT 2049
QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspAsp 360
Db 2050 GTGAAGTGTGAATGGGACATAATCTACAGTGGAGATAATATACATAACAGAGATGAT 2109
QY 361 ValIleGluSerGluAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380
Db 2110 GTAATCAAAAGTCAAAATGCACCTGGCAATATAAACACAGCAGCTGCTCTTTTGAATCC 2169
QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400
Db 2170 AATTCATTTGAAAGACATATCTTGAATCACCATATATATGTTGGATTTGAACCAAACTCT 2229
QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420

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Db 2230 TTTGTTCAAGTAGTCTGTCACACTCAGATCCAAATTTGGTGGTTCCTTGATACCGT 2289  
QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyraAspLeuLeuLysSerGlyCys 440  
Db 2290 AGAGCCTCTCCACCTCTGACTTGGATCTCCAACTTACGACCTAATCAAGAGTGGATGT 2349  
QY 441 SerArgAspGluThrCysLysValTyProLeuPheGlyHisTyrglyArgPheGlnPhe 460  
Db 2350 AGTCGAGATGAACCTTGTAAAGTGTATCCCTTATTGGACACTATGGGAGATTCAGTTT 2409  
QY 461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyLeuGlnCysLysValLeuLeu 480  
Db 2410 AATGCTTTTAAATCTTGAGAAGTATGAGCTCTGTATCTGCAAGTGTAAAGTTTGTATA 2469  
QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
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QY 501 AspIleSerSerTyrlsTyrlsTyrlsTyrlsTyrlsTyrlsTyrlsTyrlsTyrlsTyrls 520  
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Db 2590 GATCGAAGTGCAGTGGCAATTCAGGATTCAGCATGAACATGCGAGAACTCCCA 2649  
QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
Db 2650 AACCAAGCTTTCAACAGTGTGCATCTGTTTCTCCTTCAGTGTCTAGCTCTGAATGTGTG 2709  
QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrlsTyrlsGln 580  
Db 2710 ACTGTAGGCACAATCAGTGTAGGCACTTTTGTAAATCAACGGCGAGACTACAAATACCAG 2769  
QY 581 LysLeuGlnAsnTyrls 585  
Db 2770 AAGCTCGAAGACTAT 2784

RESULT 8

US-09-904-011-189  
; Sequence 189, Application US/0904011  
; Publication No. US2003000350A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/904, 011  
; CURRENT FILING DATE: 2001-07-11

; PRIOR APPLICATION NUMBER: 09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 189  
; LENGTH: 2917  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-09-904-011-189  
Alignment Scores:  
Pred. No.: 0 Length: 2917  
Score: 585.00 Matches: 585  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 11 Gaps: 0  
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QY 21 GluThrHisLysAlaMetIleLeuGlnLeuAsnProSerGluAsnCysThrTrpThrIle 40  
Db 1090 GAGACCCACAAAGCCATGATCCTGCAATCCAGTGAGAACTGCACCTGGACAATA 1149  
QY 41 GluArgProGluAsnLysSerIleArgIleIlePheSerTyrlsValGlnLeuAspProAsp 60  
Db 1150 GAAAGACCAAGAAACCAAAAGCATCAGATTTATCTTTCTTATGTCAGCTTGCATCAGAT 1209  
QY 61 GlySerCysGluSerGluAsnIleLysValPheAspGlyThrSerSerAsnGlyProLeu 80  
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QY 81 LeuGlyGlnValCysSerLysAsnAspTyrlsValProValPheGluSerSerSerThr 100  
Db 1270 CTAGGCAAGTCTGCACTAAACGACTATGTCTCTGTTTGAATCATCATCATCCAGTACA 1329

QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnAsnGlyThrValPheValPheTyr 120  
DB 1330 TTGACGTTTCAATAGTTACTGACTCAGCAAGAAATTCAGAAAGCTGTTTGTCTCTAC 1389  
QY 121 TyrPhePheSerProAsnIleSerIleProAspCysGlyGlyTyrLeuAspThrLeuGlu 140  
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QY 201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSerAsnSer 220  
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QY 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260  
DB 1750 ACCTCAATTTATCAGAAACATCAACACTACATCTTTAATCTGTCTCTGACAGATG 1809  
QY 261 ArgValIleIleSerIysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnAsnLeuGln 280  
DB 1810 AGAGTTATATAGCAAAATCTTACCTAGAGCTTTTAACTCTAATAGGAATAAAGTGCAG 1869  
QY 281 LeuIysAspProThrCysArgProIysLeuSerAsnValValGluPheSerValProLeu 300  
DB 1870 CTAAAGACCAACTTGCAGACCAAAATATCAAAATGTGTGGAATTTCTGTCCCTCT 1929  
QY 301 AsnGlyCysGlyThrIleArgIysValGluAspGlnSerIleThrTyrThrAsnIleIle 320  
DB 1930 AATGGATGTGTACATCAGAAAGTAGAGATCAGTCAATTTACTACCAATATATC 1989  
QY 321 ThrPheSerAlaSerSerThrSerGluValIleThrArgGlnIysGlnLeuGlnIleIle 340  
DB 1990 ACCTTTTCTGCTCCTCAACTCTGAGTGATCACCCTGACAGAAACAACTCCAGATTAT 2049  
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QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420  
DB 2230 TTTGTTCAAGTGTGTCGACACCTCAGATCCAAATTTGGTGTGTTCTTGTGATCTGT 2289  
QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleIysSerGlyCys 440  
DB 2290 AGAGCTCTCCACCTCTGACTTTGCTCTCCTCAACCTTACGACCTAATCAAGAGTGGATG 2349  
QY 441 SerArgAspGlnThrCysIysValThrProLeuPheGlyHisTyrGlyArgPheGlnPhe 460  
DB 2350 AGTCGAGATGAATCTGTAGGTGTATCCCTTATTTGGACACTATGAGGAGATTCAGTTT 2409  
QY 461 AsnAlaPheLysPheLeuArgSerMetSerValTyrLeuGlnCysIysValLeuIle 480

DB 2410 AATGCCTTTAAATTTCTTGAGAGATATGACTCTGTGTATCTGCAAGTAAAGTTTGTATA 2469  
QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
DB 2470 TGTGATAGCAGTACACCACTGCTGCTGCAATCAAGTTGTGTCTCCAGAAAGCAAGA 2529  
QY 501 AspIleSerSerTyrIysTyrLysThrAspSerIleIleGlyProIleArgLeuLysArg 520  
DB 2530 GACATTTCTTCATATAAATGAAGAACAGATCCATCATAGAGCCCATTCGTCTGAAAGG 2589  
QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGlnThrHisAlaGluGluThrPro 540  
DB 2590 GATCGAAGTGCAGTGCAGTTCAGGATTCAGCATGAGAAACACATCGCGAAGAACTCCA 2649  
QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
DB 2650 AACACGCCCTTCAACAGTGTGCATCTGTTTCTTCATGTTCTAGTCTGAATGTGTG 2709  
QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580  
DB 2710 ACTGTAGCGACATCAGATGAGGAGCTTTTGTAAATCAACGGGCGACACTACAAATACCAG 2769  
QY 581 LysLeuGlnAsuTyr 585  
DB 2770 AAGCTCAGAACTAT 2784

RESULT 9  
US-09-906-742-189  
; Sequence 189, Application US/09906742  
; Publication No. US20030023054A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/906,742  
; PRIOR FILING DATE: 2001-07-16  
; PRIOR APPLICATION NUMBER: 09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08  
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944  
 ; PRIOR FILING DATE: 1999-09-13  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090  
 ; PRIOR FILING DATE: 1999-09-15  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547  
 ; PRIOR FILING DATE: 1999-09-15  
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089  
 ; PRIOR FILING DATE: 1999-10-05  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214  
 ; PRIOR FILING DATE: 1999-11-29  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313  
 ; PRIOR FILING DATE: 1999-11-30  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564  
 ; PRIOR FILING DATE: 1999-12-02  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565  
 ; PRIOR FILING DATE: 1999-12-02  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095  
 ; PRIOR FILING DATE: 1999-12-16  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911  
 ; PRIOR FILING DATE: 1999-12-20  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999  
 ; PRIOR FILING DATE: 1999-12-20  
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219  
 ; PRIOR FILING DATE: 2000-01-05  
 ; NUMBER OF SEQ ID NOS: 423  
 ; SEQ ID NO 189  
 ; LENGTH: 2917  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapien  
 US-09-906-742-189

## Alignment Scores:

Pred. No.: 0 Length: 2917  
 Score: 585.00 Matches: 585  
 Percent Similarity: 100.00% Conservative: 0  
 Best local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 11 Gaps: 0

US-09-864-711-14 (1-585) x US-09-906-742-189 (1-2917)

QY 1 MetAlaGluAlaGluGlyAsnAlaSerCysThrValSerLeuGlyGlyAlaAsnMetAla 20  
 DB 1030 ATGGCGGAGGCTGAAGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGCCAAATATGGCA 1089  
 QY 21 GluThrHisLysAlaMetIleLeuGlnLeuAsnProSerGluAsnCysThrTrpThrIle 40  
 DB 1090 GAGACCCACAAGCCATGATCTCTGCACTCAATCCAGTGAGAACTGCACCTGGACAATA 1149  
 QY 41 GluArgProGluAsnLysSerIleArgIlePheSerTyrrValGlnLeuAspProAsp 60  
 DB 1150 GAAAGACCAAGAAAACAAAGCATCAGAAATATCTTTCTCTATGTCAGACTGCACCTGGACATA 1209  
 QY 61 GlySerCysGluSerGluAsnIleLysValPheAspGlyThrSerSerAsnGlyProLeu 80  
 DB 1210 GGAAGCTGTGAAGTGAAGAAACATTAAGTCTTGGACGAACCTCCAGCAATGGGCTCTG 1269  
 QY 81 LeuGlyGlnValCysSerLysAsnAspTyrrValProValPheGluSerSerSerThr 100  
 DB 1270 CTAGGGCAAGCTCGAGTAAACAGACTATGTCTCTGTATTTGAATCATCATCCAGTACA 1329  
 QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPheTyrr 120  
 DB 1330 TTGACGTTTCAAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGCTTTGCTCTTAC 1389  
 QY 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrrLeuAspThrLeuGlu 140  
 DB 1390 TACTTCTTCTCTCTACATCTCTATTCANACTGTGGCGTTACCTGGATACCTTGGAA 1449  
 QY 141 GlySerPheThrSerProAsnTyrrProLysProHisProGluLeuAlaTyrrCysValTrp 160  
 DB 1450 GGATCTTCCACCAAGCCCAATATACCAAGCCGCATCTCTGAGCTGGCTTATTGTGTGGG 1509

QY 161 HisIleGlnValGluLysAspTyrrLysIleLysLeuAsnPheLysGluIlePheLeuGlu 180  
 DB 1510 CACATACAAAGTGGAGAAAGATTACAGATAAACTAAACTTCAAGAGATTTCCTAGAA 1569  
 QY 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrrAspGlyProSerThrAsnSer 200  
 DB 1570 ATAGACAACAGTGCAAATTTGATTTCTTGCCATCATATGATGGCCCTCCACCAACTCT 1629  
 QY 201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSerSerAsnSer 220  
 DB 1630 GGCCTGATTGGACAAGTCTGTGGCGGTGTGACTCCCACTTCGAATCGATCAAACTCT 1689  
 QY 221 LeuThrValValLeuSerThrAspTyrrAlaAsnSerTyrrArgGlyPheSerAlaSerTyrr 240  
 DB 1690 CIGACTGTCGTGTGTCTACAGATTATGCCAATTTCTTACCGGGGATTTCTCTCTCTAC 1749  
 QY 241 ThrSerIleTyrrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260  
 DB 1750 ACCTCAATTTATGCAGAAACATCAACTACATCTTTAACTTGTCTTCGACAGGATG 1809  
 QY 261 ArgValIleIleSerLysSerTyrrLeuGluAlaPheAsnSerAsnGlyAsnAsnLeuGln 280  
 DB 1810 AGAGTTATTATAGCAAACTCTACCTAGAGCTTTTAACTCTAATGGGAATAACTTGCAC 1869  
 QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300  
 DB 1870 CTAAAGACCCCACTTCGACAGCAAAATATCAAAATGTTGTGGAATTTCTGTCCCTCT 1929  
 QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrrThrAsnIleIle 320  
 DB 1930 AATGGATGTGTACATCAGAAAGGTAGAAGATCAGTCAATTTACTTACACCAATAATC 1989  
 QY 321 ThrPheSerAlaSerSerThrSerGlnValIleThrArgGlnLysGlnLeuIleIle 340  
 DB 1990 ACCTTTCTGCATCTCTCACTTCTGAAGTATCAACCCGTCAGAAACAATCCAGATTAT 2049  
 QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrrIleThrGluAspAsp 360  
 DB 2050 GTGAAGTGTGAATGGGACATATCTACAGTGGAGATATATACATACAGAGATGAT 2109  
 QY 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrrAsnThrSerMetAlaLeuPheGluSer 380  
 DB 2110 GTAATACAAAGTCAAAATGTCACCTGGCAAAATATACACACACGATGCTCTTTTGAATCC 2169  
 QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrrTyrrValAspLeuAsnGlnThrLeu 400  
 DB 2170 AATTCATTTGAAAAGACTATCTGAAATCCCATATATGTGGATTGACCAACTCTT 2229  
 QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420  
 DB 2230 TTTGTTCAAGTTAGTCTGCACACTCAGATCCAAATTTGGTGTGTTCTTCTGATACCTGT 2289  
 QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrrAspLeuIleLysSerGlyCys 440  
 DB 2290 AGAGCTCTCCACCTCTGACTTTGCATCTCCAACTTACGACCTAATCAAGAGTGGATGT 2349  
 QY 441 SerArgAspGluThrCysLysValTyrrProLeuPheGlyHisTyrrGlyArgPheGlnPhe 460  
 DB 2350 AGTCAGATGAAACTTCTAAGCTGTATCCCTTATTTGGACACTATGGAGATTCGAGTT 2409  
 QY 461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyrrLeuGlnCysLysValLeuIle 480  
 DB 2410 AATGCTTTAAATTTCTTGAGAGATGAGTCTGTGTATCTGCAGTGTAAAGTTTGTATA 2469  
 QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
 DB 2470 TGTGATAGCAGTGACCACTGCTGCTGCAATCAAGGTTGTCTCTCCAGAGCAAAACGA 2529  
 QY 501 AspIleSerSerTyrrLysTrpLysThrAspSerIleIleGlyProIleArgLeuLysArg 520  
 DB 2530 GACATTTCTCATATAAATGGAACAGATCCATCATAGACCCATTCTGTCTGAAAGG 2589

QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540  
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 Db 2590 GATCGAAGTCCAAAGTGGCAATTCAGGATTTTCAGCATGAAACACATGCGGAGAACTCCA 2649  
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 QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
 |||||  
 Db 2650 AACACGCTTCCACAGTGTGCACTGTTTCTTCTATGTTCTACGCTCTGAATGTGGTG 2709  
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 QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580  
 |||||  
 Db 2710 ACTGTAGCGCAATCACAGTGGAGCAATTTGTAAATCAACGGGCGCAGACTACAAATACCAG 2769  
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 QY 581 LysLeuGlnAsnTyr 585  
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 Db 2770 AAGCTGCAGACACT 2784  
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RESULT 10  
 US-09-906-838-189  
 ; Sequence 189, Application US/09906838  
 ; Publication No. US20030027143A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Genentech, Inc.  
 ; APPLICANT: Ashkenazi, Avi  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnovers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, A.  
 ; APPLICANT: Grimaldi, Christopher J.  
 ; APPLICANT: Gurney, Austin D.  
 ; APPLICANT: Hillan, Kenneth, J.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Mather, Jennie P.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William, I.  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; FILE REFERENCE: 10466-14  
 ; CURRENT APPLICATION NUMBER: US/09/906,838  
 ; PRIOR FILING DATE: 2001-07-16  
 ; PRIOR APPLICATION NUMBER: 09/665,350  
 ; PRIOR FILING DATE: 2000-09-18  
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414  
 ; PRIOR FILING DATE: 2000-02-22  
 ; PRIOR APPLICATION NUMBER: US 60/143,048  
 ; PRIOR FILING DATE: 1999-07-07  
 ; PRIOR APPLICATION NUMBER: US 60/145,698  
 ; PRIOR FILING DATE: 1999-07-26  
 ; PRIOR APPLICATION NUMBER: US 60/146,222  
 ; PRIOR FILING DATE: 1999-07-28  
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594  
 ; PRIOR FILING DATE: 1999-09-08  
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944  
 ; PRIOR FILING DATE: 1999-09-13  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090  
 ; PRIOR FILING DATE: 1999-09-15  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547  
 ; PRIOR FILING DATE: 1999-09-15  
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089  
 ; PRIOR FILING DATE: 1999-10-05  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214  
 ; PRIOR FILING DATE: 1999-11-29

; PRIOR APPLICATION NUMBER: PCT/US99/28313  
 ; PRIOR FILING DATE: 1999-11-30  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564  
 ; PRIOR FILING DATE: 1999-12-02  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565  
 ; PRIOR FILING DATE: 1999-12-02  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095  
 ; PRIOR FILING DATE: 1999-12-16  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911  
 ; PRIOR FILING DATE: 1999-12-20  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999  
 ; PRIOR FILING DATE: 1999-12-20  
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219  
 ; PRIOR FILING DATE: 2000-01-05  
 ; NUMBER OF SEQ ID NOS: 423  
 ; SEQ ID NO 189  
 ; LENGTH: 2917  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapien  
 US-09-906-838-189  
 Alignment Scores:  
 Pred. No.: 0 Length: 2917  
 Score: 585.00 Matches: 585  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 11 Gaps: 0  
 US-09-864-711-14 (1-585) x US-09-906-838-189 (1-2917)  
 QY 1 MetAlaGluAlaGluGlyAsnAlaSerCysThrValSerLeuGlyGlyAlaAsnMetAla 20  
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 Db 1030 ATGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCAGTGGGGTGGCAATATGGCA 1089  
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 QY 21 GluThrHisIysAlaMetIleLeuGlnLeuAsnProSerGluAsnCysThrThrPhe 40  
 |||||  
 Db 1090 GAGACCCACAAAGCCATGATCTGCACTCAATCCAGTGAAGACTGCACCTGGCAATA 1149  
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 QY 41 GluArgProGluAsnLysSerIleArgIleIlePheSerTyrValGlnLeuAspProasp 60  
 |||||  
 Db 1150 GAAAGACCAGAAACAAAGCATCAGATTATCTTTCTATGTCACAGTTCAGTCCAGAT 1209  
 |||||  
 QY 61 GlySerCysGluSerGluAsnIleLysValPheAspGlyThrSerSerAsnGlyProLeu 80  
 |||||  
 Db 1210 GGAAGCTGTGAAAGTCAAAACATTAAGTCTTTGACGGAACCTCCAGCAATGGGCTCTG 1269  
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 QY 81 LeuGlyGlnValCysSerIysAsnAspTyrValProValPheGluSerSerSerSerThr 100  
 |||||  
 Db 1270 CTAGGCGAGTCTGCAGTAAACAGCTATGTCCTGTTATTTGATCATCCTCAGTACA 1329  
 |||||  
 QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPheTyr 120  
 |||||  
 Db 1330 TTGACGTTTCAATAGTTACTGACTCAGCAAGAATTAAGAACTGCTTTGTCTCTAC 1389  
 |||||  
 QY 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140  
 |||||  
 Db 1390 TACTTCTTCTCCTAACATCTTATTCACAGTGGGGTTACCTGGATACCTTGGAA 1449  
 |||||  
 QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValTyr 160  
 |||||  
 Db 1450 GGATCTTCCACGAGCCCAATTAACCAAGCGCATCTGAGCTGGCTTATTGTGTGG 1509  
 |||||  
 QY 161 HistLeuGlnValGluLysAspTyrLysIleLysLeuAsnPheLysGluIlePheLeuGlu 180  
 |||||  
 Db 1510 CACATACAAGTGGAGAAAGATTACAGATAAACTAAACTTCAAGAGATTTTCTTAGAA 1569  
 |||||  
 QY 181 IleAspLysGlnCysIysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200  
 |||||  
 Db 1570 ATAGCAACAGTGCAGAAATTTGATTTTTCGCCATCTATGATGGCCCTCCACCACTCT 1629  
 |||||  
 QY 201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSerSerAsnSer 220  
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Db 1630 GGCCTGATTGACAAAGTCTGTCGGCGGTGTGACTCCCACTTGGAAATCGTCATCAAACTCT 1689

Qy 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240

Db 1690 CTGACTGTGCTGTGTCTACAGATTATGCCAATCTTACCGGGGATTTCTGCTTCCTAC 1749

Qy 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260

Db 1750 ACTCAATTAATGAGAAACATCAACACTACATCTTTAACTTCCTCTCTGACAGGATG 1809

Qy 261 ArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnAsnLeuGln 280

Db 1810 AGAGTTATTATAAGCAAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAATAACTTGCAG 1869

Qy 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300

Db 1870 CTAAAGACCCCAACTTCAGACCAAAATATCAAAATGTGTGGAAATTTCTGCTCCCTCT 1929

Qy 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsnIleIle 320

Db 1930 AATGGATGTGTACAAATCAGAAAGTAGAGATCAGTCAATTAATTAACCAATATATC 1989

Qy 321 ThrPheSerAlaSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleIle 340

Db 1990 ACCTTTCTGCACTCCTCACTCTGAAGTGATCACCCCTCAGAAACAACCTCAGATTAT 2049

Qy 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspAsp 360

Db 2050 GTGAGTGTGAATGGGACATTAATCTACGTGGAGATATATATACATATACAGAAATGAT 2109

Qy 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380

Db 2110 GTAATACAAAGTCAAAATGCACTGGCAATATAACACAGCATGGCTCTTTTGAATCC 2169

Qy 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400

Db 2170 AATCATTTGAAAGACATATCTGTAATCACCATTATATGGGATTTGGACCAAACTCT 2229

Qy 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420

Db 2230 TTTGTTCAGTTAGTCTGCACACTCAGATCCAAATTTGGTGGTTCCTGTATACCTGT 2289

Qy 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440

Db 2290 AGAGCCTCCCACTCTGATTTGGATCTCCAACTCAGACCTCAATCAAGAGTGGATGT 2349

Qy 441 SerArgAspGluThrCysLysValTyrProLeuPheGlyHisTyrGlyArgPheGlnPhe 460

Db 2350 AGTCGAGATGAACATTTGTAAGTGTATCCCTTATTTGGACACTATGGGAGATTCAGATT 2409

Qy 461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyrLeuGlnCysLysValLeuIle 480

Db 2410 AATGCCTTTAAATCTTGAGAAGTATGAGCTCTGTATCTGCAGTGTAAAGTTTGATA 2469

Qy 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500

Db 2470 TGTGATAGCAGTGAACCCACTGCGCTGCAATCAAGTGTGTCTCCAGAAACAAAGA 2529

Qy 501 AspIleSerSerTyrLysThrLysThrAspSerIleIleGlyProIleArgLeuLysArg 520

Db 2530 GACATTTCTCATATAATGAAACAGATTCATCATAGGACCATTCGCTCGAAAGG 2589

Qy 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540

Db 2590 GATCGAAGTCAAGTGGCAATTCAGGATTTTCAGCATGAACACATGCGGGAAGAACTCCA 2649

Qy 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560

Db 2650 AACGAGCCTTCAACAGTGTGCATCTGTTTCTTCATGGTTCTAGCTCTGATGTGGTG 2709

Qy 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580

Db 2710 ACTGTAGCAGATACAGTGGGCAATTTGTAAATCAACGGGAGACTCAATACCAAG 2769

Qy 581 LysLeuGlnAsnTyr 585

Db 2770 AGCTGCGAAGCTAT 2784

## RESULT 11

US-09-907-613-189

; Sequence 189, Application US/09907613

; Publication No. US20030027145A1

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paosi, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/907,613

; PRIOR FILING DATE: 2001-07-17

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05

; PRIOR APPLICATION NUMBER: PCT/US99/28214

; PRIOR FILING DATE: 1999-11-29

; PRIOR APPLICATION NUMBER: PCT/US99/28313

; PRIOR FILING DATE: 1999-11-30

; PRIOR APPLICATION NUMBER: PCT/US99/28564

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/28565

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/30095

; PRIOR FILING DATE: 1999-12-16

; PRIOR APPLICATION NUMBER: PCT/US99/30911

; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US99/30999

; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US00/00219



; PRIOR FILLING DATE: 2000-01-05

; NUMBER OF SEQ ID NOS: 423

; SEQ ID NO 189

; LENGTH: 2917

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-907-613-189

## Alignment Scores:

Pred. No.: 0 Length: 2917  
 Score: 585.00 Matches: 585  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 11 Gaps: 0

US-09-864-711-14 (1-585) x US-09-907-613-189 (1-2917)

QY 1 MetalGluAlaGluGlyAsnAlaSerCysThrValSerLeuGlyGlyAlaAsnMetAla 20  
 DB 1030 ATGGCGAGGCTGAGGCCAATGCAGCTGCACACTCAGTCTAGGGGGTGCCAAATATGCCA 1089  
 QY 21 GluThrHisLysAlaMetIleLeuGlnLeuAsnProSerGluAsnCysThrThrIle 40  
 DB 1090 GAGAGCCCAAGCAAGCATGATCTGCAACTCAATCCCACTGAGAACTGCACCTGGCAATA 1149  
 QY 41 GluArgProGluAsnLysSerIleArgIlePheSerTyrValGlnLeuAspProAsp 60  
 DB 1150 GAAAGACCAAGAAACAAAGACATCAGATTTATCTTTCCATATGTCCAGCTTGATCCAGAT 1209  
 QY 61 GlySerCysGluSerGluAsnIleLysValPheAspGlyThrSerSerAsnGlyProLeu 80  
 DB 1210 GGAAGCTGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1269  
 QY 81 LeuGlyGlnValCysSerLysAsnAspTyrValProValPheGlnSerSerSerThr 100  
 DB 1270 CTAGGGCAAGTCTCAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1329  
 QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPheTyr 120  
 DB 1330 TTGAGGTTTCAATAGTTACTGACTCAGCAAGAATTCAAAAGAACTGCTTTGCTCTTAC 1389  
 QY 121 TyrPheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140  
 DB 1390 TACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1449  
 QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValTrp 160  
 DB 1450 GGATCCTTCACAGCCCAATTTACCAAGCGCATCTGAGCTGGCTTATTTGTGTGG 1509  
 QY 161 HisIleGlnValGluLysAspTyrLysIleLysLeuAsnPhelLysGluIlePheLeuGlu 180  
 DB 1510 CACATCAAGTGGAGAAAGATTACAGATAAACTAACTCAAGAGAGATTTCCTGAGAA 1569  
 QY 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200  
 DB 1570 ATAGACAAACAGTGCATATTTGTTTCTTGCCATCTATGATGGCCCTCCACCACTCT 1629  
 QY 201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGlnSerSerSerAsnSer 220  
 DB 1630 GGCTGATTGGACAGTCTGGCGCTGTGACTCCCACTTCCGAATCGTCATCAAACTCT 1689  
 QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerIleSerThr 240  
 DB 1690 CTGACTGTCTGTCTGCTACAGATTAGCCAAATCTTACCGGGGATTTCTGCTCTCTAC 1749  
 QY 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerSerArgMet 260  
 DB 1750 ACCTCAATTATGACAGAAACATCACTACATCTTTAACTTGTCTCTCTGACAGATG 1809  
 QY 261 ArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnLeuGln 280  
 DB 1810 AGAGTTATTATGAACAATCCTACCTAGAGGCTTTTAACTCTAATGGGAATAACTTGCAA 1869

QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300  
 DB 1870 CTAAGAAGCCCACTTGCAGACCAAAATATCAAAATGTGTGAAATTTCTGTCCTCTT 1929  
 QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrThrAsnIleIle 320  
 DB 1930 AATGGATGTGTACAAATCAGAAAGGTAGAGATCAGTCAATTACTTACCAATATATC 1989  
 QY 321 ThrPheSerAlaSerSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleIle 340  
 DB 1990 ACCTTTCTGCATCTCAACTCTCGAAGTGCATCCCGCTCAGAAACAACCTCCAGATTAT 2049  
 QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspAsp 360  
 DB 2050 GTGAAGTGTGAATGGGACATAATCTACAGTGGAGATAATATATACATAACAGAAATGAT 2109  
 QY 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380  
 DB 2110 GTAATCAAAAGTCAAAATGCCTGGCAATATAACACCAGCATGGCTCTTTTGAATCC 2169  
 QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
 DB 2170 AATTCATTTGAAAGACTATATCTTGAATCACCATATATGTGGATTTGAACCAACTCTT 2229  
 QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValPheLeuAspThrCys 420  
 DB 2230 TTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTCTTGTATACCTGT 2289  
 QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440  
 DB 2290 AGACCTCTCCCACTCTGACTTTGCATCTCCCACTCCAGCTAAATCAAGAGTGGATGT 2349  
 QY 441 SerArgAspGluThrCysLysValTyrProLeuPheGlyHisTyrGlyArgPheGlnPhe 460  
 DB 2350 AGTCGAGATGAAACTGTAAAGTGTATCCCTTATTTGGACACTATGGGAGATTCAGTTT 2409  
 QY 461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyrLeuGlnCysLysValLeuIle 480  
 DB 2410 AATCCCTTTAAATTTCTGAGAAATGAGTCTGTGTATCTGCAGTGTAAAGTTTGTATA 2469  
 QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
 DB 2470 TGTGATGAGTGCAGCCACCACTCTCGTGCATCAAGTGTGTGTCTCCAGAACCAACGA 2529  
 QY 501 AspIleSerSerTyrLysTrpLysThrAspSerIleIleGlyProIleArgLeuLysArg 520  
 DB 2530 GACATTTCTTCATATAAATGGAAAAACAGATTCCATCATTAGGACCCATCTGCTCTGAAAAGG 2589  
 QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540  
 DB 2590 GATCGAAGTGCAGTGGCAATTCAGGATTTCCAGCATGAACACACATGCGGAGAACTCCA 2649  
 QY 541 AsnGluProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
 DB 2650 AACCAAGCTTCAACAGTGTGCATCTGTTTCTTCTCATGGTTAGCTCTGAATGTGGTG 2709  
 QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580  
 DB 2710 ACTGTAGCAATCATCAGTGGGCAATTTGTAAATCAACGGGCGAGACTACAAATACCAG 2769  
 QY 581 LysLeuGlnAsnTyr 585  
 DB 2770 AAGCTGCAGAACTAT 2784

## RESULT 12

US-09-907-942-189

; Sequence 189, Application US/09907942

; Publication No. US20030027146A1

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David



QY 341 ValIysCysGluMetGlyHisAsnSerThrValGluIleLeuIleTyrIleThrGluAspAsp 360  
Db 2050 GTCAAGTGTGAATGGGACATAATCTTCAGTGGAGATAATATACATAACAGAGATGAT 2109  
QY 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380  
Db 2110 GTAATACAAGTCAAAATGCACTGGGCAATATACACACGACATGGCTCTTTTGAATCC 2169  
QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
Db 2170 AATTCATTGAAAGACATATCTTGAATCACCATTATATGATTTGAACCAACTCTT 2229  
QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValPheLeuAspThrCys 420  
Db 2230 TTGTTCAAGTGTAGTCTGCACACCTCAGATCCAAATTTGGTGTCTTCTTGATACCTGT 2289  
QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440  
Db 2290 AGAGCTCTCCACCTCTGACTTTCATCTCCAACTCAGCACCCTAATCAAGATGGATGT 2349  
QY 441 SerArgAspGluThrCysLysValTyrProLeuPheGlyHisTyrGlyArgPheGlnPhe 460  
Db 2350 AGTCGAGATGAACCTTGTAAAGTGTATCCCTTATTTGGACACTATGGAGATTCAGTTT 2409  
QY 461 AsnAlaPheIysPheLeuArgSerMetSerSerValTyrLeuGlnCysLysValLeuIle 480  
Db 2410 AATGCCTTAAATTTCTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAAAGTTTGTATA 2469  
QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
Db 2470 TGTGATAGCAGTACACCACTCTCGCTGCAATCAAGTTGTGTCTCCAGAACCAACGA 2529  
QY 501 AspIleSerSerTyrIleTyrPlyThrAspSerIleIleGlyProIleArgLeuLysArg 520  
Db 2530 GACATTTCTTCATATAAATGAAACACAGATTCCATCATTAGGACCCATTCCTCTGAAAGG 2589  
QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540  
Db 2590 GATCGAAGTGCAGTGGCAATTCAGGATTCAGCATGAAACACATGCGGAGAACTCCA 2649  
QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
Db 2650 AACGAGCCTTCAACAGTGTGCATCTCTTTTCTCCTCATGGTCTAGCTCTGAATGTGGT 2709  
QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580  
Db 2710 ACTGTAGCGCAATCAATCAGTGGGCAATTTGTAATATCAACGGGCAGACTACAAATACCAG 2769  
QY 581 LysLeuGlnAsnTyr 585  
Db 2770 AAGTCGAGACTAT 2784

RESULT 13  
US-09-864-711-14 (1-585) x US-09-864-711-14 (1-2917)  
; Sequence 189, Application US/0904859  
; Publication No. US2003036060A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillau, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/904,859  
; CURRENT FILING DATE: 2001-07-12  
; PRIOR APPLICATION NUMBER: 09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 189  
; LENGTH: 2917  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-09-864-711-14 (1-585) x US-09-864-711-14 (1-2917)  
Alignment Scores:  
Pred. No.: 0 Length: 2917  
Score: 585.00 Matches: 585  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 11 Gaps: 0  
QY 1 MetAlaGluAlaGluGlyAsnAlaSerCysThrValSerLeuGlyGlyAlaAsnMetAla 20  
Db 1030 ATGCGGAGGCGTGAAGGCAATGCAAGCTGCAGTCACTAGGGGGTGCATATATGCA 1089  
QY 21 GluThrHisLysAlaMetIleLeuGlnLeuAsnProSerGluAsnCysThrTrpThrIle 40  
|||||

Db 1090 GAGACCCACAAAGCCATGATCTCCAACTCAATCCAGTAGCAACTCCACCTGGACAATA 1149  
QY 41 GluArgProGluAsnLysSerIleArgIleIlePheSerTyrValGlnLeuAspProasp 60  
Db 1150 GAAAGACCAAGAAACAAAGACATCAGAAATATCTTTTCTTCTATGTCCAGCTGATCCAGAT 1209  
QY 61 GlySerCysGluSerGluAsnIleLysValPheAspGlyThrSerSerAsnGlyProLeu 80  
Db 1210 GGAAGCTGTGAAGTGAAGAAACATTAAGTCTTTGACGGAACCTCCAGAAATGGGCTCTG 1269  
QY 81 LeuGlyGlnValCysSerLysAsnAspTyrValProValPheGluSerSerSerThr 100  
Db 1270 CTAGGGCAAGCTGCGAGTAAACAGACTATGTCTCTGATTTGAATCATCATCATCAGTACA 1329  
QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPheTyr 120  
Db 1330 TTGACGCTTCAATAGTTACTGACTCAGCAAGAAATCAAGAAGTCTCTTTGTCTTCTAC 1389  
QY 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140  
Db 1390 TACTTCTCTCTCTCAATCATCTCTATTCCAAAGCTGTGGGGTTACCTGGATACCTGGAA 1449  
QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValTrp 160  
Db 1450 GGAATCTCTCACCAGCCCAATACCCAAAGCCGATCTCTGAGCTGGCTTATTGTGTGG 1509  
QY 161 HistIleGlnValGluLysAspTyrLysIleLysLeuAsnPheLysGluIlePheLeuGlu 180  
Db 1510 CACATACAGTGGAGAGAGATTACAGATTAATACTTAACCTCAAGAGATTTCCTAGAA 1569  
QY 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200  
Db 1570 ATAGACAAACAGTGCATAATTTGATTTCTTGCCATATGATGGCCCTCCACCAACTCT 1629  
QY 201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSerSerAsnSer 220  
Db 1630 GGCTGTATGGCAAGCTGTGGCGGTGTGACTCCACCTCGAATCGTCACTCAACTCT 1689  
QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240  
Db 1690 CTGACTGTCTGTCTTACAGATATGCAATTCCTACCGGGGATTTCTGCTTCTCTAC 1749  
QY 241 ThrSerIleValAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260  
Db 1750 ACCCTCAATTTATGAGAAACATCAACRCTACATCTTTAACTGTCTCTCTGACAGAGTG 1809  
QY 261 ArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnAsnLeuGln 280  
Db 1810 AGAGTATATATAAGCAAAATCTACTAGAGGCTTTTAACTCTAATGGGAATAACTTGCAA 1869  
QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300  
Db 1870 CTAAAGACCCCACTTGCAGACCAAAATATCAAAATGTTGTGGAAATTTCTGCTCCCTCT 1929  
QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsnIleIle 320  
Db 1930 AATGGATGTGTACATCAGAAAGTAGAGATCAGTCAATTAATTAACCAATATAATC 1989  
QY 321 ThrPheSerAlaSerSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleIle 340  
Db 1990 ACCCTTTCTGCATCTCAACTCTGAAAGTGATCACCCTGACAGAAACAACTCCAGATAT 2049  
QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspAsp 360  
Db 2050 GTGAAGTGTGAATGGGACATTAATCTACAGTGGAGATATATATCATACAGAGATGAT 2109  
QY 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380  
Db 2110 GTAATACAAAGTCAAAATGCACTGGGCAAAATATAACACAGCATGGCTCTTTTGAATCC 2169  
QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
Db 2170 AATTCATTTGAAAGACTATCTTGAATCACCATATATATGTGGATTTGAACCAAACTCTT 2229

QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420  
Db 2230 TTTGTTCAGTATAGTCTGCACACCTCAGATCCAAATTTGGTGTGTTCTTTGATACCTGT 2289  
QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440  
Db 2290 AGAGCTCTCCACCTCTGACTTGCATCTCCAACTTACACCTATCATCAAGATGGATGT 2349  
QY 441 SerArgAspGluThrCysLysValTyrProLeuPheGlyHisTyrGlyArgPheGlnPhe 460  
Db 2350 AGTCGAGATGAACATGTAAGTGTATCCCTTATTTTGGACACTATGGGAGATCCAGTTT 2409  
QY 461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyrLeuIleCysLysValLeuIle 480  
Db 2410 AATGCTTTAAATTCCTTGAAGATGATGAGCTCTGTGTATCTGCAGTGAAGTTTGATA 2469  
QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
Db 2470 TGTGATAGCAGTGCACCACCACTCTGCTGCAATCAAGTTGTCTCTCCAGAAGCAACGA 2529  
QY 501 AspIleSerSerTyrLysTyrLysThrAspSerIleIleGlyProIleArgLeuLysArg 520  
Db 2530 GACATTTCTCATATAAATGGAACACAGATTCCTCATCATAGACCCATTCGCTGAAAAG 2589  
QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluLutThrPro 540  
Db 2590 GATCGAAGTGAAGTGCATTCAGGATTCAGCATGAACACATCGGAAGAACTCCA 2649  
QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
Db 2650 AACCGACCTTTCAACAGTGCATCTGTGTTTCTTCTCTATGTTCTAGCTCTGAATGGTG 2709  
QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580  
Db 2710 ACTGTAGCGACAATCACAGTGCATCTGTGTTTCTTCTCTATGTTCTAGCTCTGAATGGTG 2769  
QY 581 LysLeuGlnAsnTyr 585  
Db 2770 AAGCTGCAGAACTAT 2784

## RESULT 14

US-09-909-204-189

; Sequence 189, Application US/09909204

; Publication No. US20030036061A1

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Giang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kijavlin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same

QY	1	Met	La	Glu	Ala	Glu	Gly	Asn	Ala	Ser	Cys	Thr	Val	Ser	Leu	Gly	Gly	Ala	Asn	Met	Ala	20
DB	1030	AT	GC	G	AG	GCTGA	AGG	CAAT	CAAG	CTG	CA	GAG	CTC	TAG	GGG	TGC	CAAT	AT	GCA	T	1089	
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DB	1090	GAG	ACC	CAC	AA	GCC	ATG	TCT	CG	ACT	CA	TCC	AC	TG	AG	ACT	GC	GAG	ACT	GC	1149	
QY	41	Glu	Arg	Pro	Glu	Asn	Lys	Ser	Leu	Ala	Gly	Leu	Leu	Leu	Val	Gln	Leu	Asp	Pro	Asp	60	
DB	1150	GA	AG	CAC	CAG	AA	CA	AA	G	AT	CAT	TCT	TTC	TAT	G	T	CC	AG	CT	GT	1209	
QY	61	Gly	Ser	Cys	Glu	Ser	Glu	Asn	Ile	Lys	Val	Pro	Asp	Gly	Thr	Ser	Ser	Asn	Gly	Pro	Leu	80
DB	1210	GA	AG	CT	G	TGA	AG	CA	AA	CA	TTA	AG	CTT	T	TG	AG	CA	CT	CA	CT	1269	
QY	81	Leu	Gly	Gln	Val	Cys	Ser	Lys	Asn	Asp	Tyr	Val	Pro	Val	Pro	Ala	Glu	Ser	Ser	Ser	Thr	100
DB	1270	CT	AGG	CA	AG	CT	G	AG	TAA	AA	CA	CA	CT	AT	T	TCT	T	G	T	T	1329	

/	PRIOR APPLICATION NUMBER:	PCT/US99/20594
/	PRIOR FILING DATE:	1999-09-08
/	PRIOR APPLICATION NUMBER:	PCT/US99/20944
/	PRIOR FILING DATE:	1999-09-13
/	PRIOR APPLICATION NUMBER:	PCT/US99/21090
/	PRIOR FILING DATE:	1999-09-15
/	PRIOR APPLICATION NUMBER:	PCT/US99/21547
/	PRIOR FILING DATE:	1999-09-15
/	PRIOR APPLICATION NUMBER:	PCT/US99/23089
/	PRIOR FILING DATE:	1999-10-05
/	PRIOR APPLICATION NUMBER:	PCT/US99/28214
/	PRIOR FILING DATE:	1999-11-29
/	PRIOR APPLICATION NUMBER:	PCT/US99/28313
/	PRIOR FILING DATE:	1999-11-30
/	PRIOR APPLICATION NUMBER:	PCT/US99/28564
/	PRIOR FILING DATE:	1999-12-02
/	PRIOR APPLICATION NUMBER:	PCT/US99/28565
/	PRIOR FILING DATE:	1999-12-02
/	PRIOR APPLICATION NUMBER:	PCT/US99/30095
/	PRIOR FILING DATE:	1999-12-16
/	PRIOR APPLICATION NUMBER:	PCT/US99/30911
/	PRIOR FILING DATE:	1999-12-20
/	PRIOR APPLICATION NUMBER:	PCT/US99/30999
/	PRIOR FILING DATE:	1999-12-20
/	PRIOR APPLICATION NUMBER:	PCT/US00/00219
/	PRIOR FILING DATE:	2000-01-05
/	NUMBER OF SEQ ID NOS:	423
/	SEQ ID NO 189	
/	LENGTH:	2917
/	TYPE:	DNA
/	ORGANISM:	Homo Sapien
/	US-09-904-820-189	

  

Alignment Scores:	
Pred. No.:	0
Score:	585.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	100.00%
DB:	11
	Length: 2917
	Matches: 585
	Conservative: 0
	Mismatches: 0
	Indels: 0
	Gaps: 0

  

US-09-864-711-14 (1-585) x US-09-904-820-189 (1-2917)

Qy	1	MetaLaGluAadLgLYAsnAlaSerCysThrValSerLeuGlyGlyAlaasnMetAla	20
Db	1030	ATGGCGAGGCTGAAGCAATGTCAAGTCGCACAGTCACTCTAGGGGTGCCAATATGSCA	1089
Qy	21	GlnThrHisrLyAlaMerileuInLeuAnProSerGluasnCysThrTrpThrIle	40
Db	1090	GAGACCACAAGAAGCATATCTCCAACTCAATPCCAGTGAGACTGCACCTGGACAATA	1149
Qy	41	GluArgProGluasnLysSerIleArgIlellePheSerTyValGlnLeuaspProasp	60
Db	1150	GAAGACAGAAAACAAAGCATCAGAAATATCTTTTCTATGTCCAGCTTGATCCAGAT	1209
Qy	61	GlySerCysGluSerGluasnIleLysValPheaspGlyThrSerSerasnGlyProLeu	80
Db	1210	GGAGCTGTGAAGTGAARCATTTAAAGTCTTTGACGGAACCTCCACGAATGGCCTCTG	1269
Qy	81	LeuGlyGlnValCysSerLysAsnAspTyValProvalPheGluSerSerSerThr	100
Db	1270	CTAGGGCAAGCTGCAAGTA AAAACGACTATGTCTCTGATTATTTGAATCATCATCCAGTACA	1329
Qy	101	LeuThrPheGlnIleValThrasPSerAlaArglieGlnArgThrValPheValPheTy	120
Db	1330	TTCAGCTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGCTTTTCTCTCAC	1389
Qy	121	TyrPhePheSerProAsnIleSerIleProasnCysGlyTyrlLeuAspThrLeuclu	140
Db	1390	TACTTCTCTCCCAACATCTTATTC AACTGTGGCGGTTACCTGGATACCTTGGAA	1449
Qy	141	GlySerPheThrSerProAsnTyPrLoLysProHisProGluLeuAlatYrCysValTrp	160

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Db 1450 GGATCCTTCACGAGCCCAATTACCCAAAGCCGCACTCCCTGAGCTGGCTTATTGTGTGG 1509
QY 161 HisIleGlnValGluLysAspTyrLysIleLysLeuAsnPheLysGluIlePheLeuGlu 180
Db 1510 CACATACAAAGTGAGAAAGATTACAGATAAACTAAACTCAAGAGATTTTCCCTAGAA 1569
QY 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200
Db 1570 ATAGACAAACAGTGCAGAAATTTGATTTCTTGCCACTATGATGGCCCTCCACCAACTCT 1629
QY 201 GlyLeuIleGlnValCysGlyArgValThrProThrPheGluSerSerAsnSer 220
Db 1630 GGCCGTGATTGGACAAAGTCTGTGGCCGTGACTCCCACTCCGATCGATCAACAACTCT 1689
QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerThrArgGlyPheSerAlaSerTyr 240
Db 1690 CTGACTCTGCTGTGTCTACAGATTATGCCAATTTCTACCGGGGATTTCTTGCTCTCTAC 1749
QY 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260
Db 1750 ACCTCAATTTATCGACAAACATCAACACTACATCTTTAACTTGCTCTCTGACAGGATG 1809
QY 261 ArgValIleIleSerLysSerTyrIleuGluAlaPheAsnSerAsnGlnLysAsnLeuGln 280
Db 1810 AGAGTTATTATAGCAAAATCTTACCTAGAGGCTTTTAACTCTAATGGGAATAACTTGCAG 1869
QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300
Db 1870 CTAAGACCCACTTGCAGACCAAAATTTATCAATGTGTGGAAATTTCTGTCCCTCTT 1929
QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsnIleIle 320
Db 1930 AATGGATGCTGGTACAATCAGAAAGCTAGAGATCAATTAATCTAATACCAATAATAATC 1989
QY 321 ThrPheSerAlaSerThrSerCluValIleThrArgGlnLysGlnLeuIleIle 340
Db 1990 ACCTTTCTGCATCCCTCACTTCTGAGTGATCACCCTCAGAAACAACTCCAGATATT 2049
QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspAsp 360
Db 2050 GTGAAGTGTGAATGGGACATAAATCTACAGTGGAGATAATATACATAACAGAGATGAT 2109
QY 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380
Db 2110 GTAATACAAAGTCAAAATCCACTGGGCAAAATATAACACCAGCATGGCTTTTGTGAATCC 2169
QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400
Db 2170 AATTCATTTGAAAGACTATACTTGAATCACCATAATTAATGTGGAATTTGAACCAACICTT 2229
QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420
Db 2230 TTTGTTCAGTTAGTCTGCACACCTCCAGATCCAAATTTGGTGTGTCTTTCTTGATACCTGT 2289
QY 421 ArgAlaSerProThrSerPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440
Db 2290 AGAGCCCTCCACCTCTGCATTTGCATCTCCCACTACGACCTAATCAAGATGGATGT 2349
QY 441 SerArgAspGluThrCysLysValThrProLeuPheLysIleTyrGlyArgPheGlnPhe 460
Db 2350 AGTCGAGATGAATTTGTAAGGTGATCCCTTATTTGGACACTATGGGAGATTCACGTTT 2409
QY 461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyrIleuGlnCysLysValLeuIle 480
Db 2410 AATGCTTTAAATTTCTGAGAAATATGAGCTCTGTGATCTGCAGTGTAAAGTTTGTATA 2469
QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500
Db 2470 TGTGATACAGTGCACACAGCTCTCGCTGCATCAAGTTGTGTCTCCAGAGCAACAGA 2529
QY 501 AspIleSerSerTyrLysThrLysThrAspSerIleIleGlyProIleArgLeuLysArg 520
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Db 2590 GATCGAAGTGCRAATGGCAATTCAGGATTTCAAGATGAACACATCGGAGAAACTCCA 2649
QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560
Db 2650 AACCAACCTTTCAACAGTGTGCATCTGTTTCTTCATGGTCTCTAGCTCTGAATGTGTG 2709
QY 561 ThrValAlaIleThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580
Db 2710 ACTGTAGACACATCAACAGTGAAGGATTTTGTAAATCAACGGCGAGCTACAAATACCAG 2769
QY 581 LysLeuGlnAsnTyr 585
Db 2770 AAGCTGCAGAACTAT 2784
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GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

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2967.921 Million cell updates/sec

Title: US-09-864-711-14

Perfect score: 3064

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Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Database :

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6: /cgn2\_6/ptodata/2/ina/BACKFILES1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	842	27.5	4360	1	US-08-470-350B-1
2	837	27.3	5802	4	US-09-341-587-4
3	470.5	15.4	2001	4	US-09-341-587-2
4	293.5	9.6	11272	4	US-09-341-461-1
5	293	9.6	4771	2	US-08-866-650-2
6	293	9.6	4771	2	US-09-021-287-2
7	293	9.6	4771	3	US-09-240-473-2
8	289.5	9.4	2201	1	US-08-453-472-2
9	289.5	9.4	2201	1	US-08-038-948-6
10	289.5	9.4	2201	1	US-08-453-952-2
11	289.5	9.4	2201	2	US-08-862-903-2
12	288	9.4	3690	3	US-08-991-408-3

13	288	9.4	3690	4	US-09-432-473-3	Sequence 3, Appli
14	288	9.4	3919	2	US-08-866-650-4	Sequence 4, Appli
15	288	9.4	3919	2	US-09-021-287-4	Sequence 4, Appli
16	288	9.4	3919	3	US-09-240-473-4	Sequence 4, Appli
17	288	9.4	5145	3	US-08-991-408-1	Sequence 1, Appli
18	288	9.4	5145	4	US-09-432-473-1	Sequence 1, Appli
19	288	9.4	4661	4	US-09-285-385C-3	Sequence 3, Appli
20	283	9.2	5021	4	US-09-285-385C-1	Sequence 1, Appli
21	281.5	9.2	1480	2	US-08-839-008-8	Sequence 8, Appli
22	281.5	9.2	1537	2	US-08-839-008-1	Sequence 1, Appli
23	279.5	9.1	1504	2	US-08-839-008-4	Sequence 4, Appli
24	279.5	9.1	1506	2	US-08-839-008-6	Sequence 6, Appli
25	279	9.1	1802	3	US-09-032-523-5	Sequence 5, Appli
26	272	8.9	2457	3	US-08-872-757-1	Sequence 1, Appli
27	272	8.9	2457	4	US-09-850-048A-1	Sequence 1, Appli
28	270.5	8.8	2487	1	US-08-377-232-1	Sequence 1, Appli
29	266.5	8.7	2266	1	US-08-453-472-1	Sequence 1, Appli
30	266.5	8.7	2266	1	US-08-453-952-1	Sequence 1, Appli
31	266.5	8.7	2266	2	US-08-484-993B-42	Sequence 42, Appli
32	266.5	8.7	2266	2	US-08-862-903-1	Sequence 1, Appli
33	266.5	8.7	2266	2	US-08-484-158B-42	Sequence 42, Appli
34	266.5	8.7	2266	2	US-08-484-596A-42	Sequence 42, Appli
35	266.5	8.7	2266	2	US-08-480-150A-42	Sequence 42, Appli
36	266.5	8.7	2266	3	US-08-458-731-42	Sequence 42, Appli
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39	253	8.3	2772	3	US-08-936-135-1	Sequence 1, Appli
40	252.5	8.2	2730	3	US-08-936-135-17	Sequence 17, Appli
41	252.5	8.2	2781	3	US-08-936-135-19	Sequence 19, Appli
42	252	8.2	3546	3	US-08-872-757-3	Sequence 3, Appli
43	252	8.2	3546	4	US-09-850-048A-3	Sequence 3, Appli
44	251	8.2	28720	4	US-09-341-587-7	Sequence 7, Appli
45	249.5	8.1	2236	2	US-08-484-993B-13	Sequence 13, Appli

#### ALIGNMENTS

#### RESULT 1

US-08-470-350B-1  
; Sequence 1, Application US/08470350B  
; Patent No. 5684126  
; GENERAL INFORMATION:  
; APPLICANT: Li, Xiao  
; APPLICANT: Snyder, Solomon H  
; TITLE OF INVENTION: Ebnerrin: A Secreted von Ebner's Gland Protein Associated with Taste Buds  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Banner & Witcoff, Ltd.  
; STREET: 1001 G Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20001  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/470,350B  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Wolffe, Susan A.  
; REGISTRATION NUMBER: 33,568  
; REFERENCE/DOCKET NUMBER: 01107.48790  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-508-9100  
; TELEFAX: 202-508-9299  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4360 base pairs



/	TYPE: nucleic acid
/	STRANDEDNESS: single
/	TOPOLOGY: linear
/	MOLECULE TYPE: cDNA
/	HYPOTHETICAL: NO
/	ANTI-SENSE: NO
/	ORIGINAL SOURCE:
/	ORGANISM: Rattus rattus
/	FEATURE:
/	NAME/KEY: CDS
/	LOCATION: 94..3963
/	US-08-470-350B-1
Alignment Scores:	
Pred. No.:	3,7e-87
Score:	842.00
Percent Similarity:	48.16%
Best Local Similarity:	48.16%
Query Match:	29.46%
Indels:	27.48%
Gaps:	1
DB:	14
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QY	56 GlnLeuAspProAspGlySerCysGluSerGluAsnIleLysValPheAspGlyThrSer 75
Db	1978 CAGCTT-----GAGGAGAGGTGGCACTATGACTACATCTGGGTTTTGAIGTCTCTGAA 2031
QY	76 SerAsnGlyProLeuLeuGlyGlnValCysSer----- 86
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QY	87 -----Lys 87
Db	2092 CAGAAGTTCAGTCTGTAGTCTTTATCACGGATGGCAGTGTGCACGAGAGAGGGTTCGAA 2151
QY	88 AsnAspTyr-----ValProVal 93
Db	2152 GCTGACTACTACTCCACTCTTATCAGGACCAGCAGACAACTCTCCAACGAGTTCCGGATC 2211
QY	94 PheGluSerSerSerThrLeuThrPheGlnIleValThrAspSerAlaArgIleGln 113
Db	2212 ATTACTGGAAATGATCTTCATCTGGTCTCGAGCTGGTAAATGGAACACCGGTGTGAG 2271
QY	114 ArgThrValPheValPheTyr----- 120
Db	2272 GGCCGAGTGGAGATCTTTGTACAGAGGCTCTTGGGTACCGTGTGCCGACGACAGCTGGGAC 2331
QY	120 ----- 120
Db	2332 ATCAATGATCCCAATGGTCTGTGCAGACAGCTCGGTTGGGCTCTGTCTGTCTGTCTGCTCA 2391
QY	120 ----- 120
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QY	121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140
Db	2572 GTTTGGACAGTCCCTCTTTTAAACTATACTTGTGGAGGTTCTTCGTACGTGACTCTCT 2631
QY	141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValThr 160

QY 511 SerIleIleProIleArgLeuIleYsArgAspArgSerAlaSer-GlyAsnSerGlyPh 530  
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 QY 530 eGlnHisGluThr---HisAlaGluGluThrProAsnGlnProPheAsnSerValHisLe 549  
 Db 3805 GCATGGCAGATGGAGAACCCAGCTCCAGGAGTCTATCCCACTGCACCAT 3863  
 QY 549 uSerPheMetValLeuAlaLeuAsnValThrValAlaThrIleThrVal 567  
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 RESULT 2  
 US-09-341-587-4  
 ; Sequence 4, Application US/09341587  
 ; Patent No. 6346606  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mollenhauer, Jan  
 ; TITLE OF INVENTION: Protein Containing an SRCR Domain  
 ; FILE REFERENCE: 4121-108  
 ; CURRENT APPLICATION NUMBER: US/09/341,587  
 ; CURRENT FILING DATE: 1999-08-31  
 ; EARLIER APPLICATION NUMBER: PCT/DE98/00096  
 ; EARLIER FILING DATE: 1998-01-09  
 ; NUMBER OF SEQ ID NOS: 12  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 4  
 ; LENGTH: 5802  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-341-587-4

## Alignment Scores:

Pred. No.: 2,32e-86 Length: 5802  
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 Best local Similarity: 29.67% Mismatches: 161  
 Query Match: 27.32% Indels: 158  
 DB: 4 Gaps: 13

US-09-864-711-14 (1-585) x US-09-341-587-4 (1-5802)

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 QY 56 GlnLeuAspProAspGlySerCysGluSerGluAsnIleIysValPheAspGlyThrSer 75  
 Db 3656 AATTTGGAGGCACACCATACACTGCGAGTTTGTATTAATTGTAATCTTGTGATCATTTG 3715  
 QY 76 SerAsnGlyProLeuLeuGlnValCysSerLysAsnAspTyrValProValPheGlu 95  
 Db 3716 AATAGCAGTCTCTCTGCTGGGGAATCTGT-----AATGATACCCAGGCAAAATTTACA 3769  
 QY 96 SerSerSerSerThrLeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThr 115  
 Db 3770 TCTTTTACACCGAATGACCATTCACCTTCGAAGTGACATCAGT---TTCGAAACACACT 3826  
 QY 116 ValPheValPheTyrThrPheSerPro----- 125  
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 QY 125 ----- 125  
 Db 3887 AATTCATCTATGCTATGTGCGGGCGGTGTAGAAATTTWACCATGGTGACCTGGGGG 3946  
 QY 125 ----- 125  
 Db 3947 ACAGTTTGTGATGACTCCTCGGACCATTCAGGAAGCTGAGTGTCTGACAGACGTAGG 4006  
 QY 125 ----- 125

Db 4007 TGTGGACGTGCAGTTTCAGCCCTTGGAAATGCATATTTGGCTCTGGCTCTGGCCCCATC 4066  
 QY 125 ----- 125  
 Db 4067 ACCCTGGACGATGTAGAGTGTCTCAGGGACGGAATCACTCTCTGGCAGTGCAGGAACGA 4126  
 QY 125 ----- 125  
 Db 4127 GGCTGGTTCTCCCAAACTGTAAATCATCTGGAAGATGGTGTCTCATCTGCTCAGGAAC 4186  
 QY 126 -----AsnIleSerIleProAsn-----Cys 132  
 Db 4187 CATCTATGACACCTGTCTCTTTCTCAACATCAACCGGTCCAAACACAGATATTTCCTGC 4246  
 QY 133 GlyGlyTyrLeuAspThrLeuGluGlySerPheThrSerProAsnTyrProIysProHis 152  
 Db 4247 GGAGGCTTCTCTATCCCAACCATCAGGGGACTTTTCCAGCCCACTCTATCCCGGAACTAT 4306  
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 Db 4367 ATCTTCAGAGATGTC-----CAGCTTGAAGTGTGCACTATGATGATATTGAGATT 4420  
 QY 193 TyrAspGlyProSerThrAsnSerGlyLeuIleGlyGlnValCysGlyArgValThrPro 212  
 Db 4421 TTCATGGCCCTACCGCAGTCCCTCTCATCTGCTGAGTTGTGATGGGCGCAGAGGC 4480  
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 QY 308 LysValGluAspGlnSerIleThrTyrThrAsnIleIleThrPheSerAlaSerThr 327  
 Db 4775 CAGGAGACAATGACACCATCGACTATTCCACTTCCTCACA-----GCAGTGTCTCA 4828  
 QY 328 SerGlnValIleThrArgGlnGlnLeuIleValLysCysGluMetGlyHis 347  
 Db 4829 GGTCGATCATCAAGAGGAGACAGACCTCCGTAATTCAGTCACTGCAAGTGTCTCAG 4888  
 QY 348 AsnSerThrValGluIleIleIleThrGluAspAspValIleGlnSerGlnAsnAla 367  
 Db 4889 AACACCTGGTGCACACCATGTACATGTGTAATGACACCATCCACCTGCTGTAATACAC 4948  
 QY 368 Leu-----GlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380  
 Db 4949 ATCAGGTGAGAGAGTCCAGTATGCGCAATTTGACGTAACATTTCTTTTATCTCC 5008  
 QY 381 AsnSerPheGluIleThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
 Db 5009 TCATCTTCTGTATCTCTGTGACCGCGCCCTTACTAGTGGACCTGAACAGGACTTG 5068  
 QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValPheLeuAspThrCys 420  
 Db 5069 TACGTTCAAGCTGAATCTCCATCTGATGCTGCTACTGACCTGTTGTTGGACACTGC 5128

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QY 421 ArgAlaSerPro----ThrSerAspPheAlaSerProThrThrAspLeuLeuLeuSerCly 439
Db 5129 GTGGCATCACCATACCAATGACTTCCAGTCTTTGACTTATGATCTAATCCGGAGTGA 5188
QY 440 CysSerArgAspGluThrCysLysValTyrProLeuPheGlyHisTyr----- 455
Db 5189 TGGGTGAGGAGTACACCC-----TACGGACCCCTACTCCCTCGCGGTCT 5230
QY 456 -----GlyArgPheGlnPheAsnAlaPheLysPheLeuArgSerMetSerVal 472
Db 5231 CTTCCGATTCGCCGCTCCGGTTCAGGCTTCCACTCTCTGAACCGCTCCCTCCGCTG 5290
QY 473 TyrLeuGlnCysLysValLeuLeuLeuCysAspSerSerAspHisGlnSerArgCysAsnGln 492
Db 5291 TACTCGGTGTAAATGGTGGTGCAGCGGTATGACCCCTCTCCCGCTGCTACCGA 5350
QY 493 GlyCysValSerArgSerLysArgAspPheLeuSerTyrLysThrAspSerIle 512
Db 5351 GGCTGTGTGTTGAGGTGGAAGAGGATGTGGGCTCTTACCAGGAAAGGTGAGCTGCTC 5410
QY 513 IleGlyProIleArgLeuLys 519
Db 5411 CTGGTCCCATCCAGTGCAG 5431

RESULT 3
US-09-341-587-2
; Sequence 2, Application US/09341587
; Patent No. 634606
; GENERAL INFORMATION:
; APPLICANT: Moellenhauer, Jan
; TITLE OF INVENTION: Protein Containing an SRCR Domain
; FILE REFERENCE: 4121-108
; CURRENT APPLICATION NUMBER: US/09/341,587
; CURRENT FILING DATE: 1999-08-31
; EARLIER APPLICATION NUMBER: PCT/DE98/00096
; EARLIER FILING DATE: 1998-01-09
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 2001
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-341-587-2

Alignment Scores:
Pred. No.: 2e-44 Length: 2001
Score: 470.50 Matches: 111
Percent Similarity: 44.03% Conservative: 92
Best Local Similarity: 24.08% Mismatches: 121
Query Match: 15.36% Indels: 137
DB: 4 Gaps: 9

US-09-864-711-14 (1-585) x US-09-341-587-2 (1-2001)
QY 36 CysThrThrThrIleGluArgProGluAsnLysSerIleArgIleIlePheSerTyrVal 55
Db 640 TGTGTTGGGAATAGAGTGAATCTGGTTATGCCATAAACCTTGGGCTTCAGTAACTCG 699
QY 56 GlnLeuAspProAspGlySerCysGluSerGluAsnIleLysValPheAspGlyThrSer 75
Db 700 AAATTGGAGGCACACCATAACTGCAGTTTGTATGTTGAAATCTTTGATGATCATTTG 759
QY 76 SerAsnGlyProLeuGlnValCysSerLysAsnAspTyrValProValPheGlu 95
Db 760 AATAGCAGTCTCTCTGGGAAATCTGT-----AATGATACCGAGCAATATTTACA 813
QY 96 SerSerSerSerLeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThr 115
Db 814 TCTTCTACACCGAATGACCATCACTTTCGAGTGACATCACT---TTCCAAACACT 870
QY 116 ValPheValPheTyrTyrPhePheSerPro----- 125

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Db 871 GGCTTTTGGCTTGGTATATACTCTTCCCAAGCATGATGCCACCTTGAGTGGTCAATTFA 930
QY 125 ----- 125
Db 931 AATTCATCCTATGGTCTATGTGCCGGGGGTAGAAATTTACCATTTGGTGGCACCCTGGGG 990
QY 125 ----- 125
Db 991 ACAATTTGTGATGACATCCCTGGACCAATTTCAGAAAGTGGTGGTCTGCACACAGCTAGGG 1050
QY 125 ----- 125
Db 1051 TGTGAGCTGCAGTTTTCAGCCCTTGGAAATGCATATTTTGGCTCTGGCTCTGGCCCCATC 1110
QY 125 ----- 125
Db 1111 ACCCTGGACGATGTAGAGTCTTCAGGGACGGAATCCACTCTCTGGCAGTGGCGGAACCGA 1170
QY 125 ----- 125
Db 1171 GGCTGGTTCCTCCCAACATGTAATCATCTGTGAAGATGCTGTGTCATCTGCTCAGGAAC 1230
QY 126 -----AsnIleSerIleProAsn-----Cys 132
Db 1231 CATCTATCGACACCTGCTCTCTTTCTCAACATCACCCGTCCTCAACACACAGATATTCTGTC 1290
QY 133 GlyGlyTyrLeuAspThrLeuGluGlySerPheThrSerProAsnTyrProLysProHis 152
Db 1291 GGAGCTTCTATCCCAACCATCAGGGAGCTTTTCCAGCCCATCTATCCCGGGACTAT 1350
QY 153 ProGluLeuAlaTyrCysValThrHisIleValLeuLysAspTyrLysIleLysLeu 172
Db 1351 CCAAAACAATGCCAAGTGTGTGGGACATTGAGTGCAGAAACAACATACCGTGTGCTGTG 1410
QY 173 AsnPheLysGluIlePheLeuGluLeuLeuLeuLysCysLysPheAspPheLeuAlaIle 192
Db 1411 ATCTTCAGAGATGTC-----CAGCTTGAGGTGGCTGCACACTATGATATATTAAGT 1464
QY 193 TyrAspGlyProSerThrAsnSerGlyLeuIleGlyValCysGlyArgValThrPro 212
Db 1465 TTCGATGGCCCTTACCGCAGTTCCCTCTCATTTGCTCGAGTTTGTGATGGGGCCAGAGG 1524
QY 213 ThrPheGluSerSerSerAsnSerLeuThrValValLeuSerThrAspTyrAlaAsnSer 232
Db 1525 TCCCTTCATCTCTCTCCAACTTCATGCCATTCGCTTCATCAGTCCAGTCCAGCAGCATCACA 1584
QY 233 TyrArgGlyPheSerAlaSerTyrThrSerIleTyrAlaGluAsnIleAsnThrThrSer 252
Db 1585 AGGAGAGGTTCCGGGCTGAGTACTTCC-----AGTCCCTCCAATGACAGCAGCAAC 1638
QY 253 LeuThrCysSerSerAspArgMetArgValIleIleSerLysSerTyrLeuGluAlaPhe 272
Db 1639 CTGCTCTGTCTGCCAAATCAGATCCAGCCAGTGTGAGCAGGAGTATCTCCAATCTGTG 1698
QY 273 AsnSerAsnGlyAsnAsnLeuGlnLeuLysAsp-----ProThrCysArgPro 288
Db 1699 GCTTTTCTGCGAGTACCTGCTGCTATTCCTCCCTGGGAATGGATACAGTGTGCGGCC 1758
QY 289 LysLeuSer---AsnValValGluPheSerValProLeuAsnGlyCysGlyThrIleArg 307
Db 1759 CAGATAAGCGCAACCTGCTGATATTCACAATTCCTACTCAGGTCGGCGCACCCTTCAAG 1818
QY 308 LysValGluAspGlnSerIleThrThrAsnIleIleThrPheSerAlaSerSerThr 327
Db 1819 CAGGAGCAATGATGACCCATCCAGTATTTCCAACTTCTCCACA-----GCAGTGTCTCA 1872
QY 328 SerGluValIleThrArgGlnLysGlnLeuGlnIleValLysCysGluMetGlyHis 347
Db 1873 GTTGCATCATCAAGAGGAGGACAGACCTCGGTATTCAGTCCAGTCCAGATCTCTCAG 1932
QY 348 AsnSerThrValGluIleIleTyrIleThrGluAspValIleGlnSerGlnAsnAla 367
Db 1933 AACACCTGGGTGCAGACCATGTACATCTGCTAATGACACCATCCAGTGTGCTAATACAC 1992

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QY 368 Leu 368
Db 1993 ATC 1995

RESULT 4
US-09-341-461-1
; Sequence 1, Application US/09341461
; Patent No. 6586389
; GENERAL INFORMATION:
; APPLICANT: Hammond, Timothy G.
; APPLICANT: Verroust, Pierre J.
; TITLE OF INVENTION: Cubilin Protein, DNA Sequences Encoding Cubilin
; TITLE OF INVENTION: and Uses Thereof
; FILE REFERENCE: D6148
; CURRENT APPLICATION NUMBER: US/09/341.461
; CURRENT FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: PCT/US99/01259
; PRIOR FILING DATE: 1999-01-21
; NUMBER OF SEQ ID NOS: 40
; SEQ ID NO 1
; LENGTH: 11272
; TYPE: DNA
; ORGANISM: rat
; FEATURE:
; OTHER INFORMATION: nucleic acid sequence of rat cubilin
US-09-341-461-1

Alignment Scores:
Pred. No.: 1.69e-22 Length: 11272
Score: 293.50 Matches: 100
Percent Similarity: 45.96% Conservative: 65
Best Local Similarity: 27.86% Mismatches: 147
Query Match: 9.58% Indels: 47
DB: 4 Gaps: 16

US-09-864-711-14 (1-585) x US-09-341-461-1 (1-11272)

QY 4 AlaGluGlyAsnAlaSerCysThrValSerLeuGlyGlyAlaAsnMetAlaGluThrHis 23
Db 4840 GCTGAATTCAGGGAAGAGTGC-----GGAGGCGGCATCATGACCGACTCTCC 4887

QY 24 LysAlaMetLeuGlnLeuAsnPro-----SerGluAsnCysThrTrp 38
Db 4888 GATACATCTCTCTCCACTGATCCCTCACAACCTATCTACACAACGACGACTGTCCTGG 4947

QY 39 ThrIleGlu--ArgProGluAsnLysSerIleArgIleIlePheSerThrValGlnLeu 57
Db 4948 ATAAATGAAGCTGAGCTCCATCAATCAATCAATCAATCAATCAATCAATCAATCAATCA 5007

QY 58 AspProAspGlySerCysGluSerGluAsnIleLysValPheAspGlyThrSerSerAsn 77
Db 5008 CAAACACACACAGACTGACACGGGACTTTGTAGAAATTTTGGATGGCAACGACTATGAC 5067

QY 78 GlyProLeuLeuGlyGlnValCysSerLysAsnAspThrValProValPheGluSerSer 97
Db 5068 GCACCTGTCCAAAGCCGCTTACGTGTGTTCTCCCTGCCGCCACCCCATCATATA---TCATTT 5124

QY 98 SerSerThrLeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPhe 117
Db 5125 GGCATGCCCTAACCGTGAGGTTTGTCACTGATTCACAGCGAGTTTTCAGGGTTCCGT 5184

QY 118 ValPheThrThrPhePheSerProAsnIleSerIleProAsnCysGlyGlyThrLeuAsp 137
Db 5185 GGCATCATAT-----TCTGCATCGCATCATCTCTGTGTGGAGCTTCTAC 5229

QY 138 ThrLeuGlnGlySerPheThrSerProAsnThrProLysProHisProGluLeuAlaThr 157
Db 5230 ACACGTGAAGCACTTCAATAGCCCGGACTACCCAGACGACTACCATCCCAATGCGAGAA 5289

QY 158 CysValThrHisIleGlnValGluLysAspThrLysIleLysLeuAsnPheLysGluIle 177
Db 5290 TGTGCTGGACATTCGCACCTCCCTCCGCAACCGCTGCAACTGCTCTCTCTATCTCTTC 5349

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QY 178 PheLeuGluIleAspLysGlnCysLysPheAspPheLeuAlaIleThrAspGlyProSer 197
Db 5350 AATTTGGAGATTCCTAAACAGTCTAAACAGATTTTGTGGAAATTCGAGAAATGCC 5409

QY 198 ThrAsnSerGlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSer 217
Db 5410 ACGGGCCAC---TTGATGGACGATACTGTGGAACTCCCTCCCTGGGATTTTCGTCA 5466

QY 218 Ser-----AsnSerLeuThrValValLeuSerThrAspThrAlaAsnSerThrArgGly 235
Db 5467 GCTGAGGACATAGTCTATGGTCCGATTTGTCTGTATGGCTCAGGCACCTGGCATGGGC 5526

QY 236 PheSerAlaSerThrThrSerIleThrAlaGluAsn-----IleAsnThrThrSerLeu 253
Db 5527 TTCAGGCGCAGTTTCAAAATATATTTGGCAATATAATATTTGGGGAACCTCATGGGAAA 5586

QY 254 ThrCysSer-----SerAspArgMetArgValIleIle 264
Db 5587 ATCGCATCTCCCTCTGTGGCCTGGAAATATACCCCTACAACTCCAATTACAAATGGGTGTA 5646

QY 265 SerLysSerThrLeuGluAlaPheAsn---SerAsnGlyAsnAsnLeuGlnLeuLys--- 282
Db 5647 AAT-----GTGGACGATATCATATATATCCAGGTAGATCTCAGATGGACATA 5697

QY 283 AspProThrCysArg-----ProLysLeuSerAsnValValGluPheSer 297
Db 5698 GAACCCACACAGCACTGCTTTATGACAGTTTAAAGATTTATGATGATTTGACACTCAT 5757

QY 298 ValProLeuAsnGly-----CysGlyThrIleArgLysValGluAspGlnSerIleThr 315
Db 5758 TCCCGTCTCATTTGGCAGCTTACTGTGTGTTAC-----CAGACAGATCCCTTTAGC 5805

QY 316 TyrThr---AsnIleIleThrPheSerAlaSerSerThrSerGluValIleThrArg 333
Db 5806 TCCAGTAGAAGCACTATCTGCATTCAGTTTCTTCGACTCTCTGTGTCTCAGGAGG 5862

RESULT 5
US-08-866-650-2
; Sequence 2, Application US/08866650
; Patent No. 5939321
; GENERAL INFORMATION:
; APPLICANT: Greenspan, Daniel S
; APPLICANT: Takahara, Kazuhiko
; APPLICANT: Hofman, Guy G
; TITLE OF INVENTION: Mammalian Tolloid-Like Protein
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Quarles & Brady
; STREET: 1 South Plackney Street
; CITY: Madison
; STATE: WI
; COUNTRY: US
; ZIP: 53703
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/866,650
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Benson, Bennett J
; REGISTRATION NUMBER: 37094
; REFERENCE/DOCKET NUMBER: 960296.93839
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 608-251-5000
; TELEFAX: 608-251-9166
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4771 base pairs

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; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 611..3652
; OTHER INFORMATION: /product= "murine mTll protein"
; US-08-866-650-2

Alignment Scores:
Pred. No.: 4,4e-23 Length: 4771
Score: 293.00 Matches: 79
Percent Similarity: 40.91% Conservatve: 47
Best Local Similarity: 25.65% Mismatches: 120
Query Match: 9.56% Indels: 62
DB: 2 Gaps: 9

US-09-864-711-14 (1-585) x US-08-866-650-2 (1-4771)
QY 32 ProSerGluAsnCysThrTrpThrIleGluArgProGluAsnLysSerIleArgIleIle 51
Db 2060 CCAATGAGGAGGTGTATGGAATATATGTTGTCGAGGCGTACCAGTGTGACGTGAC 2119
QY 52 PheSerTyrValGlnLeuAspProAspGlySerCysGluSerGluAsnIleLysValPhe 71
Db 2120 TTTGAGCGCTTTGAGATCGAAGACATGACAGCTGTGCTATGACCACTGAGAGTTGGA 2179
QY 72 AspGlyThrSerSerAsnGlyProLeuGlnValCysSerLysAsnAspTyrVal 91
Db 2180 GATGAGCCGATGAGACAGCCCTTTGATGAGGAGGTGCTGTGGT---TATGACAAACCT 2236
QY 92 ProValPheGluSerSerSerThrIleThrPheGlnIleValThrAspSerAlaArg 111
Db 2237 GAAGATATAAGTCTACTTCCAAACCCCTGGATGATGCTCTCTCTGACGGGACT--- 2293
QY 112 IleGlnArgThrValPheValPheTyrPhe----- 122
Db 2294 GTGACAAAGCGGGTTTCTCGCAACTTTTAAAGAGGAAGATGAGTGTGCCAAACCT 2353
QY 123 -----Phe 123
Db 2354 GACCGAGAGCGTGTGAACAGAGGTGCTTAAACACATAGGACGCTACCGTGTGCGTGT 2413
QY 124 SerProAsnIleSerIle---ProAsn-----CysGlyGlyTyr 135
Db 2414 GAGCGTGTGCTATGACGTGGGGCGACACAGAGAGCTGTGAAGCTGTGCGGAGGACTT 2473
QY 136 LeuAspThrLeuGluGlySerPheThrSerProAsnTyrProLysProHisProGluLeu 155
Db 2474 CTGACGAGCTCAATGGCACCATAACCCCGCGGTGGCCAAAGAGTACCTCCCAAC 2533
QY 156 AlaTyrCysValThrPheIleGlnValGluLysAspTyrIleLysLeuAsnPheLys 175
Db 2534 AAAAAGCTGTGTGGCAAGTGTGCGCAAGCCAGTACAGATCTCTGTGAAGTTTGG 2593
QY 176 GlnIlePheLeuGlnIleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGly 195
Db 2594 TTTTGTGATGAGAGCAATGAAGTTTGCAATPACATTCAGTGTGAGATCTGGAGCGGC 2653
QY 196 ProSerThrAsnSerGlyLeuIleGlnValCysGlyArgValThrPro---ThrPhe 214
Db 2654 CCTTCTCTGAGCTAAATGCGATGCGAAGTTCTGTGGCGCTGACATCTGAAGTGTG 2713
QY 215 GluSerSerAsnSerLeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArg 234
Db 2714 ACTTCCCATTTCAACACATGAGGATTGAATCAAGTCAGACACACTGTATCCAAAG 2773
QY 235 GlyPheSerAlaSerTyrThrSer-----Ile 243
Db 2774 GCTTCAAGGACACATTTTTTCTCAGATAGGATGAGTGTTCAGAGGATATGCGTGT 2833
QY 244 TyrAlaGluAsnIleAsnThrThr---SerLeuThrCysSerSerAspArgMetArgVal 262

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QY 52 PheSerTyrValGlnLeuAspProAspGlySerCysGluSerGluAsnIleValPhe 71  
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Db 2120 TTTCAGGCTTGTGAGATCGAAGACATGACAGCTGCTATGACACCTGAGACTTGA 2179  
QY 72 AspGlyThrSerSerAsnGlyProLeuLeuGlyGlnValCysSerLysAsnAspTyrVal 91  
||| : : : : : ||| : : : : :  
Db 2180 GATGGAGCAGTGAAGACAGCCCTTTGATAGAGCGTCTGTGTGT---TATGACAAACCT 2236  
QY 92 ProValPheGluSerSerSerSerThrLeuThrPheGlnIleValThrAspSerAlaArg 111  
||| : : : : : ||| : : : : :  
Db 2237 GAAGATATAAGTCTACTCTCAACACCTGTGGATGAGTGTGTCTGTGACGGGACT--- 2293  
QY 112 IleGlnArgThrValPheValPheTyrTyrPhe 122  
||| : : : : : ||| : : : : :  
Db 2294 GTGACAGAGCAGGCTTGTGCGAATCTTTTAAAGAGGAGATGAGTGTGCCAAACCT 2353  
QY 123 -----Phe 123  
Db 2354 GACCGAGGAGGCTGTGAACAGAGGTGTCTTAACACACTGAGCAGTACACAGTGTGCCGTGT 2413  
QY 124 SerProAsnIleSerIle---ProAsn-----CysGlyGlyTyr 135  
||| : : : : : ||| : : : : :  
Db 2414 GAGCTGCTATGAGTGGGGCCAGACAGAGAGCTGTGAAGTGTCTGCGGAGACTT 2473  
QY 136 LeuAspThrLeuGluGlySerPheThrSerProAsnTyrProLysProHisProGluLeu 155  
||| : : : : : ||| : : : : :  
Db 2474 CTGACGAAGCTCAATGGCAGCATAACCCCGGCTGGCCAAAGAGTACCTCCAAAC 2533  
QY 156 AlaTyrCysValTyrHisIleGlnValGluLysAspTyrLysIleLysLeuAsnPhelys 175  
||| : : : : : ||| : : : : :  
Db 2534 AAAAAGTGTGTGCGAAGTATCGCGCCAGCCAGTACAGATCTGTGAGTGTGAG 2593  
QY 176 GluIlePheLeuGluIleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGly 195  
||| : : : : : ||| : : : : :  
Db 2594 TTTTGTGATTTGAAGGCAATGAGTTTCAAATACGATACGTGGAGACTGTGGAGCGGC 2653  
QY 196 ProSerThrAsnSerGlyLeuIleGlyGlnValCysGlyArgValThrPro---ThrPhe 214  
||| : : : : : ||| : : : : :  
Db 2654 CTTCTCTGAGTCTAAAGTGCATGCGAGTCTGTGCGCTGACATACCTGAAAGTGTG 2713  
QY 215 GluSerSerAsnSerLeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArg 234  
||| : : : : : ||| : : : : :  
Db 2714 ACTTCCATTTCAACACATGAGGATTAATCAAGTCAAGACACACTGTATCCAGAG 2773  
QY 235 GlyPheSerAlaSerTyrThrSer-----Ile 243  
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Db 2774 GGCTTCAAGACCATTTTCTCAGATAAGGATGAGTGTCAAAGGATAATGTGGCTGT 2833  
QY 244 TyrAlaGluAsnIleAsnThrThr---SerLeuThrCysSerSerAspArgMetArgVal 262  
||| : : : : : ||| : : : : :  
Db 2834 CAGCATGAGTGTGTCACACAGATGGGAGTTACAGTGTCTAGTGC----- 2878  
QY 263 IleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnAsnLeuGlnLeuLys 282  
||| : : : : : ||| : : : : :  
Db 2879 -----CGAATGGAATTCGTGTGTCATGAGAACAGCATGATGTCAG 2920  
QY 283 AspProThrCysArgProLysLeu 290  
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Db 2921 GAAGCGGAGTGTGAACAGAGATA 2944

RESULT 7  
US-09-240-473-2  
; Sequence 2, Application US/09240473  
; Patent No. 6297011  
; GENERAL INFORMATION:  
; APPLICANT: Greenspan, Daniel S  
; APPLICANT: Takahara, Kazuhiko  
; APPLICANT: Hoffman, Guy G  
; TITLE OF INVENTION: Mammalian Tolloid-Like Protein  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Quarles & Brady

STREET: 1 South Pinckney Street  
CITY: Madison  
STATE: WI  
COUNTRY: US  
ZIP: 53703  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/240,473  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Berson, Bennett J  
REGISTRATION NUMBER: 37094  
REFERENCE/DOCKET NUMBER: 960296.93839  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 608-251-5000  
TELEFAX: 608-251-9166  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4771 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 611..3652  
OTHER INFORMATION: /product= "murine mtl1 protein"  
US-09-240-473-2  
Alignment Scores:  
Pred. No.: 4,4e-23 Length: 4771  
Score: 293.00 Matches: 79  
Percent Similarity: 40.91% Conservative: 47  
Best Local Similarity: 25.65% Mismatches: 120  
Query Match: 9.56% Indels: 62  
DB: 3 Gaps: 9  
US-09-864-711-14 (1-585) x US-09-240-473-2 (1-4771)  
QY 32 ProSerGluAsnCysThrThrThrIleGluArgProGluAsnLysSerIleArgIleIle 51  
||| : : : : : ||| : : : : :  
Db 2060 CCAATGAAGAGTGTGTATGAAATAATATGTTGCCAGAGGCTACCATGTTGGACTGACC 2119  
QY 52 PheSerTyrValGlnLeuAspProAspGlySerCysGluSerGluAsnIleLysValPhe 71  
||| : : : : : ||| : : : : :  
Db 2120 TTTCAGGCTTGTGAGATCGAAGACATGACAGCTGTGCTATGACACCTGAGACTTGA 2179  
QY 72 AspGlyThrSerSerAsnGlyProLeuLeuGlyGlnValCysSerLysAsnAspTyrVal 91  
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Db 2180 GATGGAGCAGTGAAGACAGCCCTTTGATAGAGCGTCTGTGTGT---TATGACAAACCT 2236  
QY 92 ProValPheGluSerSerSerSerThrLeuThrPheGlnIleValThrAspSerAlaArg 111  
||| : : : : : ||| : : : : :  
Db 2237 GAAGATATAAGTCTACTCTCAACACCTGTGGATGAGTGTGTCTGTGACGGGACT--- 2293  
QY 112 IleGlnArgThrValPheValPheTyrTyrPhe 122  
||| : : : : : ||| : : : : :  
Db 2294 GTGACAGAGCAGGCTTGTGCGAATCTTTTAAAGAGGAGATGAGTGTGCCAAACCT 2353  
QY 123 -----Phe 123  
Db 2354 GACCGAGGAGGCTGTGAACAGAGGTGTCTTAACACACTGAGCAGTACACAGTGTGCCGTGT 2413  
QY 124 SerProAsnIleSerIle---ProAsn-----CysGlyGlyTyr 135  
||| : : : : : ||| : : : : :  
Db 2414 GAGCTGCTATGAGTGGGGCCAGACAGAGAGCTGTGAAAGTGTCTGCGGAGACTT 2473  
QY 136 LeuAspThrLeuGluGlySerPheThrSerProAsnTyrProLysProHisProGluLeu 155  
||| : : : : : ||| : : : : :  
Db 2474 GAGCTGCTATGAGTGGGGCCAGACAGAGAGCTGTGAAAGTGTCTGCGGAGACTT 2533



Db 943 AATGGCTGAGATTGAATTCAGAAATCTCTCTGAACTAAACCCCTCGAAATATGT 1002  
 QY 188 AspPheLeuAlaIleTyrAspGlyProSerThrAsnSerGlyLeuIleGlyGlnValCys 207  
 Db 1003 CCAATCTACAGTCTCTAC-----CTC 1023  
 QY 208 GlyArgValThrProThrPheGluSerSerAsnSerLeuThrValValLeuSerThr 227  
 Db 1024 TCTCACTCAAGCTGACCTTCTACTTCCAAAGGACATGCTATCCACAGTGATAGATCCT 1083  
 QY 228 AspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyrThrSerIleTyrAlaGluAsn 247  
 Db 1084 GAG-----TCCCACTGTGAGTCA 1101  
 QY 248 IleAsnThrThrSerLeuThrCysSerSerAspArgMetArgValIleSerLysSer 267  
 Db 1102 CCACTCTCTATAGATGACTGTGTGCACAGATGGGTTATGGACITTAGGCTCTACAGC 1161  
 QY 268 TyrLeuGluAlaPheAsnSerAsnGlyAsnAsnLeuGlnLeuLysAspProThrCysArg 287  
 Db 1162 CACCAAAACAAACCCGCACTGAACCTGGACACCTCTCTGTGGGAATTCCTCTGGCAG 1221  
 QY 288 Pro-----LysLeuSerAsnVal-----ValGluPheSerValProLeuAsnGlyCys 303  
 Db 1222 CCTATTTTCAAGGTGCACTGTGTGGGGCTTGCAGGTTTCACATCCCTCTGAATGATGT 1281  
 QY 304 GlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsn-----IleIleThrPhe 322  
 Db 1282 GGACAAAGCAGAAATTGAGGTGATAAGTCATCTATGAGATGAATACATGCTCTC 1341  
 QY 323 SerAlaSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleIleValLys 342  
 Db 1342 TGGGAAACCAACCCCTCCAACTGTATTTCAGAAACAGCAGTTCAGGATGACAGTAAGA 1401  
 QY 343 CysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspValIle 362  
 Db 1402 TGC-----TATTATCATCAGACAGATATGCTA 1428  
 QY 363 GlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSer----- 374  
 Db 1429 CTAATGCCCATGTCAAGGACATCTCTCCAGAGGCTTTGTAAGCCAGGCCACTG 1488  
 QY 375 -----MetalLeuPheGluSerAsnSerPheGluLysThrIleLeuGluSerPro 391  
 Db 1489 GTGTTGGTCTTACAAACATACCAGCACTCTCTCAACGG-----CCT 1533  
 QY 392 TyrTyrValAsp-----LeuAsnGlnThrPheValGlnVal 404  
 Db 1534 TACAGGAGGATGAGTACCTCTAGTACGAGTACCTCCAGCCAACTCATGGAAGTG 1593  
 QY 405 Ser-----LeuHisThrSerAspProAsnLeuValPheLeuAspThrCysArgAlaSer 423  
 Db 1594 AAGGTCTTGACGAGCAGATGCCCAACATCAAGCTGGTCTTAGATGACTGCTGGCACT 1653  
 QY 424 ProThrSerAspPheAlaSer---ProThrTyrAspLeuIleLysSerGlyCysSerArg 442  
 Db 1654 TCTTGAGGACCCGGCTCTGCGCTTCAGTGCAGATGTGCATGATGCTGTGAA--- 1710  
 QY 443 AspGluThrCysLysValTyrProLeu----- 451  
 Db 1711 -----TATGACTGGACACTACCGCACTACTTTCCACCAGCTGGC 1752  
 QY 452 -----PheGlyHisTyrGlyArgPheGlnPheAsnAlaPheLysPheLeu 466  
 Db 1753 TCCTGTCAGCCCAATTCGGGTCACTACGAGGTTTGATGTGAAGACTTTTGCCTTTGA 1812  
 QY 467 -----ArgSerMetSerSer---ValTyrLeuGlnCysLysValLeuIleCysAsp 482  
 Db 1813 TCAGAGGCACACGGGGCTCTCCAGCCTGATCTACTTCCACTGCACTGCTGCTGATCTTAAC 1872  
 QY 483 SerSerAspHisGlnSer---ArgCysAsnGlnGlyCysValSer-----ArgSerLys 499  
 Db 1873 CAAGTCTCTGTGACTCCCTCTGTGCTCTGTGACTTGCCTGTGCATCACTGAGGAGCAAA 1932

QY 500 ArgAspIleSerSerTyrLysThrAspSerIleIleGlyProIleArgLeuLys 519  
 Db 1933 CGAGAGGCCACAAAGAGACACAATGACGTTAGCTTCCAGGACCTATCTCTGTG 1992  
 QY 520 ArgAspArgSerAlaSer-----GlyAsnSerGlyPheGlnHisGluThr 534  
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 Db 2113 GTCACTTAGGCTTCATCTCTTACCTGTATAGAAAGAACTATAGG-----TTCAT 2166  
 QY 573 GlnArgAlaAspTyrLysTyrGlnLysLeuGln 583  
 Db 2167 CACTGATTGGACTTGCAAAATAAAGAGACTGCAG 2199  
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 US-08-038-948-6  
 ; Sequence 6, Application US/08038948  
 ; Patent No. 5641487  
 ; GENERAL INFORMATION:  
 ; APPLICANT: DEAN, JURRIEN  
 ; TITLE OF INVENTION: CONTRACEPTIVE VACCINE BASED ON  
 ; TITLE OF INVENTION: ALLOIMUNIZATION WITH ZONA PELLUCIDA POLYPEPTIDES  
 ; NUMBER OF SEQUENCES: 14  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: CUSHMAN, DARY & CUSHMAN  
 ; STREET: 1100 New York Avenue, N.W.  
 ; CITY: Washington  
 ; STATE: D.C.  
 ; COUNTRY: U.S.  
 ; ZIP: 20005-3918  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/038,948  
 ; FILING DATE: 26-MAR-1993  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/930,462  
 ; FILING DATE: 20-AUG-1992  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/364,379  
 ; FILING DATE: 12-JUN-1989  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: SCOTT, Watson T.  
 ; REGISTRATION NUMBER: 26,581  
 ; REFERENCE/DOCKET NUMBER: 99152/E-266-88/2  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (202) 861-3000  
 ; TELEFAX: (202) 822-0944  
 ; TELEX: 6714627 CUSH  
 ; INFORMATION FOR SEQ ID NO: 6:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 2201 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: both  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA  
 ; US-08-038-948-6  
 Alignment Scores:  
 Pred. No.: 2,98e-23 Length: 2201  
 Score: 289.50 Matches: 140  
 Percent Similarity: 37.72% Conservative: 98



Best Local Similarity: 22.19% Mismatches: 234  
 Query Match: 9.45% Indels: 159  
 DB: 1 Gaps: 27

US-09-864-711-14 (1-585) x US-08-038-948-6 (1-2201)

QY 50 IleIlePheSerTyrValGlnLeuAspProAspGlySerCysGluSerGluAsn----- 67  
 DB 493 ATATCTTTTTCCTCCACAGATTTTCTCTAGGCTTGCTGATGAAACACAGAAAGTATCT 552  
 QY 68 -----IleLysValPheAspGlyThr----- 74  
 DB 553 GAGATGGGATGATTTAAAGATTGGCAATGGTACAAGACCCACACATTCTGCCCTTGAAG 612  
 QY 75 -----SerSerAsnGlyProLeuLeuGlyCln 83  
 DB 613 GATGCCATAGACAGGATTAAATCTTGATTCGACAGCCAGAAAGTACTCTCCACAGTG 672  
 QY 84 ValCysSerLysAsnAspTyrValProValPheGluSerSerSerThrLeuThrPhe 103  
 DB 673 CCAGCCATGCTACTGGAATAGTTCATATGTGCAAGAGACAGCTATCTCTATACTGTG 732  
 QY 104 GlnIle---ValThrAspSerAlaArgIleGlnArgThrValPheValPheTyrThrPhe 122  
 DB 733 CAGCTGGAGCTTGTCTCAACCACTGGGCGAGAAGATCTCTCTCATCACACGCTATC 792  
 QY 123 PheSerProAsnIleSer-----IleProAsn 131  
 DB 793 TGGCCACCATGATCTTCTGCGCTTGAATGCTACACATGACTCTCATATACCAAGAA 852  
 QY 132 CysGlyGlyTyrLeuAspThrLeuGlu---GlySerPheThrSerProAsnTyrProLys 150  
 DB 853 TTTCTCGGAAGCTAGAGTCTGGAGTTTGGACAATGGACATCCCTCGAGGACCAA--- 909  
 QY 151 ProHisProGluLeuAlaTyrCysValTyrPhe-----IleGlnValGluLysAsp 167  
 DB 910 -----TGGCATGCCAATGGATTGACAAGAAGACACA 942  
 QY 168 TyrLysIleLysLeuAsnPhelLysGluIlePheLeuGluLeuAspLysGlnCysLysPhe 187  
 DB 943 AATGGCTTGAGATTGAATTCAGAAAATCTCTCTGTAAGAACTAAACCCCTCGAAAATGT 1002  
 QY 188 AspPheLeuAlaIleTyrAspGlyProSerThrAsnSerGlyLeuIleGlyGlnValCys 207  
 DB 1003 CCATCTACCAGTCTAC-----CTC 1023  
 QY 208 GlyArgValThrProThrPheGluSerSerSerAsnSerLeuThrValValLeuSerThr 227  
 DB 1024 TCTTCACTCAAGCTGACCTCTACTTCCAAAGGAACATGCTATCCACAGTATAGATCCT 1083  
 QY 228 AspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyrThrSerIleTyrAlaGluAsn 247  
 DB 1084 GAG-----TGGCAGTGTGAGTCA 1101  
 QY 248 IleAsnThrThrSerLeuThrCysSerSerAspArgMetArgValIleIleSerLysSer 267  
 DB 1102 CCAGTCTCTATAGATGAACCTGTGCACAGGATGGGTTATPGAGCTTTGAGCTCTACAGC 1161  
 QY 268 TyrLeuGluAlaPheAsnSerAsnGlyAsnAsnLeuGlnLeuLysAspProThrCysArg 287  
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 DB 1222 CCTATTTTCAAGTGCATCTGTGGGCTTGCAAGGTTTCACATACCTCTGATGATGATGT 1281  
 QY 304 GlyThrIleArgLysValGluAspGlnSerIleThrThrAsn---IleIleThrPhe 322  
 DB 1282 GGAACAGCAGCAATTTTGAAGGTGATAAAGTCAATCATATGAGATGAATACATACCTCTC 1341  
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 DB 1342 TGGAAACCCACCCCTCCACATTTGATTTCAGAAACACGCGAGTTCAGGATGACAGTAAGA 1401

QY 343 CysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspAspValIle 362  
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 QY 363 GlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSer----- 374  
 DB 1429 CTAATGCCCATGCTCAAGAGCATCCTTCCAGAGGCTTTGTAAAGCCAGCCACAGT 1488  
 QY 375 -----MetAlaLeuPheGluSerAsnSerPheGluLysThrIleLeuGluSerPro 391  
 DB 1489 GTGTTGTGCTCTACACATATCCAGACCAATCTCTACACAGG-----CCT 1533  
 QY 392 TyrTyrValAsp-----LeuAsnGlnThrLeuPheValGlnVal 404  
 DB 1534 TACAGGAAGATGAGTACGCTCTAGTGAGGTACTCCGCCACCACTCATCTGGAAGTG 1593  
 QY 405 Ser---LeuHisThrSerAspProAsnLeuValValPheLeuAspThrCysAlaGlnSer 423  
 DB 1594 AAGTCTTGAGCAGGAGCAATCCCAATCATCAAGCTGTCTTAGATGACTGCTGGCAAT 1653  
 QY 424 ProThrSerAspPheAlaSer---ProThrTyrAspLeuIleLysSerGlyCysSerArg 442  
 DB 1634 TCTTCTGAGGACCGGCTCTCGCCTCAGTGGCAGATTGTCATGATGCTGTGAA--- 1710  
 QY 443 AspGluThrCysLysValTyrProLeu----- 451  
 DB 1711 -----TATGAATGGACAACTACCGCACTACTTCCACCAGCTGGC 1752  
 QY 452 -----PheGlyHisTyrGlyArgPheGlnPheAsnAlaPheLysPheLeu 466  
 DB 1753 TCTCTCTCAGCCCATTCGCGTCTACTACAGAGGTTTGTATGTAAGACTTTTGCCTTTGTA 1812  
 QY 467 -----ArgSerMetSerSer---ValTyrLeuGlnCysLysValLeuIleCysAsp 482  
 DB 1813 TCAGAGGCGAGGGGCTCTCCAGCTGATCTACTTCCACTGCGAGTGCCTGTATCTGTAAC 1872  
 QY 483 SerSerAspHisGlnSer---ArgCysAsnGlnGlyCysValSer-----ArgSerLys 499  
 DB 1873 CAAGTCTCTTGTACTCCCTCTGTGCTGTGACTTGCCCTGCATCATCTGAGGACAAA 1932  
 QY 500 ArgAspIleSerSerTyrIleThrAspSerIleIleGlyProIleArgLeuLys 519  
 DB 1933 CGAGAGGCCAAAGAGACACATGCGGTGAGCTTCCAGGACCTATCTCTCTGCTG 1992  
 QY 520 ArgAspArgSerAlaSer-----GlyAsnSerGlyPheGlnHisGluThr 534  
 DB 1993 TCAGATGCTCTTCAATCCAAAGGTGTTGACCCAGCAGCTCTGAGATTACCAAGGATAT 2052  
 QY 535 HisAlaGluGluThrProAsnGlnProPheAsnSerValHisLeuPhe-----SerPhe 552  
 DB 2053 ATGCGCAGGATATTCCTTCTAAACACTGGGTGCTGTGCTGACACTAGTGGGCTCAGCT 2112  
 QY 553 MetValLeuAlaLeuAsnValValThrValAlaThrIleThrValArgHisPheValAsn 572  
 DB 2113 GTCATTCTAGGCTTCATCTGTTTACCTGTATATAAGAAAAGAACTATAAG-----TTCAAT 2166  
 QY 573 GlnArgAlaAspTyrLysTyrClnLysLeuGln 583  
 DB 2167 CACTGATGACTTGCATAATAAGAGACTGCGAG 2199

RESULT 10  
 US-08-453-952-2  
 ; Sequence 2, Application US/08453952  
 ; Patent No. 5672488  
 ; GENERAL INFORMATION:  
 ; APPLICANT: DEAN, JURRIEN  
 ; TITLE OF INVENTION: CONTRACEPTIVE VACCINE  
 ; TITLE OF INVENTION: BASED ON ALLOIMMUNIZATION WITH ZONA PELLUCIDA  
 ; TITLE OF INVENTION: POLYPEPTIDES  
 ; NUMBER OF SEQUENCES: 12  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: MORGAN & FINNEGAN

STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: IBM PC COMPATIBLE  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/453,952  
FILING DATE: 30-MAY-1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/038,948  
FILING DATE: 26-MAR-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/930,462  
FILING DATE: 20-AUG-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/364,379  
FILING DATE: 12-JUN-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: DOROTHY R. AUTH  
REGISTRATION NUMBER: 36,434  
REFERENCE/DOCKET NUMBER: 2026-4032 USA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 2201

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: unknown

MOLECULE TYPE: cDNA

ORGANISM: mouse

STRAIN:

INDIVIDUAL ISOLATE:

DEVELOPMENTAL STAGE:

HAPLOTYPE:

TISSUE TYPE:

CELL TYPE:

CELL LINE:

ORGANELLE:

FEATURE:

NAME/KEY: ZP2

LOCATION:

IDENTIFICATION METHOD:

OTHER INFORMATION: mouse ZP2 cDNA

US-08-453-952-2

Alignment Scores:  
Pred. No.: 2,98e-23  
Score: 289.50  
Percent Similarity: 37.72%  
Best local Similarity: 22.19%  
Query Match: 9.45%  
DB: 1  
Gaps: 27

US-09-864-711-14 (1-585) x US-08-453-952-2 (1-2201)

QY 50 llelePheSerTyrValGlnLeuAspProaspGlySerCysGluSerGluAsn----- 67  
D 493 ATATCTTTCTTCCCAACTTTTCTTAGGCTTGCTGATGAAACCAAGATGATCT 552  
QY 68 -----lleysValPheaspGlyThr----- 74  
D 553 GAGATGGGATGGATTGTAAGATTGCAATGTGCAAGAGCCCAATCTCCCTTGAG 612

QY 75 -----SerSerAsnGlyProLeuLeuGlyGln 83  
D 613 GATGCCATAGTACAGGATTTAATCTCTGATTGACAGCCAGAAAGTACTCTCCACGTG 672  
QY 84 ValCysSerLysAsnAspTyrValProValPheGluSerSerSerSerThrLeuThrPhe 103  
D 673 CCAGCCAATGCTACTGGAATAGTTCACTATGTGCAAGAGACGACGCTATCTCTATATCTG 732  
QY 104 GlnIle--ValThrAspSerAlaArgIleGlnArgThrValPheValPheThrPhe 122  
D 733 CAGCTGGAGCTCTTGTCTCAACACTGGGCAAGATCGTCTCTCATCACACCTATC 792  
QY 123 PheSerProAsnIleSer-----lleProAsn 131  
D 793 TGGCACCAGATCTTCTGTGGCTTGAATGCTACACACATGACTCTCACTATACCAGAA 852  
QY 132 CysGlyGlyTyrLeuAspThrLeuGlu---GlySerPheThrSerProAsnTyrProLys 150  
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D 1084 GAG-----TGGCAGTGTGAGTCA 1101  
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QY 304 GlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsn-----lleIleThrPhe 322  
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QY 363 GlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSer----- 374  
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QY 375 -----MetAlaLeuPheGluSerAsnSerPheGluLysThrIleLeuGluSerPro 391  
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Db 793 TGGCCACAGATCTTTCTGTTGGCTTGAATGCTACACACATGACTCTCACTATACCAGAA 852  
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QY 198 AspPheLeuAlaTyrLeuAspGlyProSerThrAsnSerGlyLeuLeuGlyGlnValCys 207  
Db 1003 CCATTCACCAAGTCTTAC-----CWC 1023  
QY 208 GlyArgValThrProThrPheGluSerSerAsnSerLeuThrValValLeuSerThr 227  
Db 1024 TCTTCACATCAAGCTGACCTCTACTTCCAAAGGAACATGCTATCCACAGTGATAGATCCT 1083  
QY 228 AspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyrThrSerIleTyrAlaGluAsn 247  
Db 1084 GAG-----TGCACACTGTGATCA 1101  
QY 248 IleAsnThrThrSerLeuThrCysSerSerAspArgMetArgValIleIleSerLysSer 267  
Db 1102 CCACTCTCTATAGAACTGTGTGCACAGATGGTGTATGACACTTTGAGGCTACAGC 1161  
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QY 304 GlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsn---IleIleThrPhe 322  
Db 1282 GGAACAAGGCAGAAATTTGAAGGTGATAAAGTATCATGAGAATAAATACATGCTCTC 1341  
QY 323 SerAlaSerSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleValLys 342  
Db 1342 TGGGAAACCCACCTCCCAACATTTATTCAGAAACAGGAGTTCAGATCAGATGAAGA 1401  
QY 343 CysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspValIle 362  
Db 1402 TGC-----TAATTACATCAGACAGATGCTA 1428  
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Db 1429 CTAATGCCATGTCAAGGACATCTCTCCAGAGGCTTTGTAAGCCAGGCCACTG 1488  
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Db 1534 TACAGGAAGGATGAGTACCTCTAGTGAGTACCTCCGACCAATCTACATGGAAGT 1593  
QY 405 Ser---LeuHisThrSerAspProAsnLeuValPheLeuAspThrCysArgAlaSer 423  
Db 1594 AAGGCTTTGACAGAGAACATCCCAACATCAAGTGTCTTAGATGACTGTGGGCACT 1653  
QY 424 ProThrSerAspPheAlaSer---ProThrTyrAspLeuIleLysSerGlyCysSerArg 442  
Db 1654 TCTTCTGAGGACCGGCTCTGGCTCAGTGGCAGATTTGTCATGATGGCTGTGAA--- 1710  
QY 443 AspGluThrCysLysValTyrProLeu----- 451  
Db 1711-----TATGAATGGACAACACTACCGCACTACTTCCACCCAGCTGGC 1752

QY 452-----PheGlyHisTyrGlyArgPheGlnPheAsnAlaPheLysPheLeu 466  
Db 1753 TCTCTGCGAGCCCAATTCGGCTCATACAGAGGTTTGTATGATGAAGACTTTTCCCTTTGTA 1812  
QY 467-----ArgSerMetSerSer---ValTyrLeuGlnCysLysValLeuIleCysAsp 482  
Db 1813 TCAGAGGCACGGGGCTCTCCAGCTGATCTACTTCCACTGCAGTGCCTTGTATCTGTAAAC 1872  
QY 483 SerSerAspHisGlnSer---ArgCysAsnGlnGlyCysValSer-----ArgSerLys 499  
Db 1873 CAAGTCTCTCTGATCTCCCTCTGCTGCTGTGATCTGCTCATCACTCAGGAGCAAA 1932  
QY 500 ArgAspIleSerSerTyrLysTyrLysThrAspSerIleIleGlyProIleArgLeuLys 519  
Db 1933 CGAGAGGCCACAAAGAGACACAATGACGGTACCTTCCAGGACCTATTCTTGTGTG 1992  
QY 520 ArgAspArgSerAlaSer-----GlyAsnSerGlyPheGlnHisGluThr 534  
Db 1993 TCAGATGTCTCTTATCCAAAGGTGTGACCCAGCAGCTCTGAGATTACCAAGGATATT 2052  
QY 535 HisAlaGluGluThrProAsnGlnProPheAsnSerValHisLeuPhe-----SerPhe 552  
Db 2053 ATTGCCAAGGATATTGCTTCTTAAACACTGGGTGCTGTGGCTGCACTAGTGGCTCAGCT 2112  
QY 553 MetValLeuAlaLeuAsnValValThrValAlaThrIleThrValArgHisPheValAsn 572  
Db 2113 GTCATTTAGGCTCATCTGTACCTGTATAAGAAAAGAACTATAAGG-----TTCAAT 2166  
QY 573 GlnArgAlaAspTyrLysTyrGlnLysLeuGln 583  
Db 2167 CACTGATTGGACTTGCATAAATAAGAGACTGCAG 2199  
RESULT 12  
US-08-991-408-3  
; Sequence 3, Application US/08991408  
; Patent No. 6008017  
; GENERAL INFORMATION:  
; APPLICANT: ARLETH, ANTHONY J.  
; APPLICANT: WILLETTTE, ROBERT N.  
; APPLICANT: ELSHOURBAGY, NABIL A.  
; APPLICANT: LI, XIAOTONG  
; TITLE OF INVENTION: HUMAN CARDIAC/BRAIN TOLLOID-LIKE  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: RATNER & PRESTIA  
; STREET: P.O. BOX 980  
; CITY: VALLEY FORGE  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19482  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/991,408  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/034,471  
; FILING DATE: 02-JAN-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: PRESTIA, PAUL F  
; REGISTRATION NUMBER: 23,031  
; REFERENCE/DOCKET NUMBER: ATG-50038  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 610-407-0700  
; TELEFAX: 610-407-0701  
; INFORMATION FOR SEQ ID NO: 3:



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660 CTTTACCAAACTTAAACGGCACCACCAACCCCTGGCCCAAGAGTACCCCTCAAT 719
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720 AAGAACTGTGTGGCAAGTGGTGCACCACCACAGTACAGAATTTCTGTGAAGTTGAG 779
176 GluIlePheLeuGluIleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGly 195
780 TTTTGTGAATTTGGAAGCAATGAAGTTTGTCAAATATGATATGTGAGATCTGGAGTGGT 839
196 ProSerThrAsnSerGlyLeuIleGlyGlnValCysGlyArgValThrPro--ThrPhe 214
840 CTTTCTCTCGAGCTCTAACHTGCATGGCAAAATTCGTGGCCCTGAATGCGCTGAAGTGA 899
215 GluSerSerAsnSerLeuThrValValLeuSerThrAspTyrThrAlaAsnSerTyrArg 234
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235 GlyPheSerAlaSerTyrThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThr 254
960 GGTTCCTCAAGCACAATTTTCTCAGACAAGATGAA----- 995
255 CysSerSerAsp-----ArgMetArgValIleIleSerLysSerTyrLeu 269
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1056 TGTCAATGCGGTAATPGGATTTGTCTACATGATCAATAACATGATTGCCAAGGAAGCTGAG 1115
286 CysArgProLysLeu 290
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RESULT 14
US-08-866-650-4
; Sequence 4, Application US/08866650
; Patent No. 5939321
; GENERAL INFORMATION:
; APPLICANT: Greenspan, Daniel S
; APPLICANT: Takahara, Kazuhiko
; APPLICANT: Hofman, Guy G
; TITLE OF INVENTION: Mammalian Tolloid-Like Protein
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Quarles & Brady
; STREET: 1 South Pinckney Street
; CITY: Madison
; STATE: WI
; COUNTRY: US
; ZIP: 53703
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/866,650
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Berson, Bennett J
; REGISTRATION NUMBER: 37094
; REFERENCE/DOCKET NUMBER: 960296.93839
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 608-251-5000
; TELEFAX: 608-251-9166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3919 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double

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## RESULT 15

US-09-021-287-4  
; Sequence 4, Application US/09021287  
; Patent No. 5981717  
; GENERAL INFORMATION:  
; APPLICANT: Greenspan, Daniel S  
; APPLICANT: Takahara, Kazuhiko  
; APPLICANT: Hoffman, Guy G  
; TITLE OF INVENTION: Mammalian Toll-like Protein  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Quarles & Brady  
; STREET: 1 South Pinckney Street  
; CITY: Madison  
; STATE: WI  
; COUNTRY: US  
; ZIP: 53703  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/021,287  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/866,650  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Berson, Bennett J  
; REGISTRATION NUMBER: 37094  
; REFERENCE/DOCKET NUMBER: 960296.93839  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 608-251-5000  
; TELEFAX: 608-251-9166  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3919 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; ORIGINAL SOURCE:  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 648..3689  
; OTHER INFORMATION: /product= "human mail protein"  
US-09-021-287-4

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US-09-864-711-14 (1-585) x US-09-021-287-4 (1-3919)

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Job time : 127 secs

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: October 15, 2003, 14:57:45 ; Search time 326 Seconds  
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4656.333 Million cell updates/sec

Title: US-09-864-711-14

Perfect score: 3064

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1731049 seqs, 1297405648 residues

Total number of hits satisfying chosen parameters: 3462098

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-TRANS=human40.cdd -LIST=45 -DALIGN=200 -THR SCORE=pct -THR MAX=100  
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Published Applications\_NA.\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	DB ID	Description
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2	3064	100.0	2917	10	US-09-909-320-189	Sequence 189, App
3	3064	100.0	2917	10	US-09-909-088B-189	Sequence 189, App
4	3064	100.0	2917	10	US-09-903-291A-189	Sequence 189, App
5	3064	100.0	2917	10	US-09-903-853-189	Sequence 189, App
6	3064	100.0	2917	10	US-09-907-824-189	Sequence 189, App
7	3064	100.0	2917	10	US-09-907-841-189	Sequence 189, App
8	3064	100.0	2917	11	US-09-904-011-189	Sequence 189, App
9	3064	100.0	2917	11	US-09-906-742-189	Sequence 189, App
10	3064	100.0	2917	11	US-09-906-838-189	Sequence 189, App
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44	3064	100.0	2917	11	US-09-906-760A-189	Sequence 189, App
45	3064	100.0	2917	11	US-09-903-823-189	Sequence 189, App

ALIGNMENTS

RESULT 1  
US-09-864-711-1  
; Sequence 1, Application US/09864711  
; Patent No. US20020077309A1  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkmut, Wayne  
; APPLICANT: Klingler, Tod M.  
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS  
; FILE REFERENCE: PB-0008-1 CIP  
; CURRENT APPLICATION NUMBER: US/09/864,711  
; CURRENT FILING DATE: 2001-05-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PERL Program  
; SEQ ID NO 1  
; LENGTH: 1966  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: 223163CTI  
US-09-864-711-1

Alignment Scores:  
Pred. No.: 0  
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Length: 1966  
Matches: 585



Percent Similarity: 100.00% Conservative: 0  
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US-09-864-711-14 (1-585) x US-09-864-711-1 (1-1966)

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 ; Patent No. US20020132240A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Genentech, Inc.  
 ; APPLICANT: Ashkenazi, Avi  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnovers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, A.  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, Christopher J.

APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
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APPLICANT: Roy, Margaret Ann  
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APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/909,320  
CURRENT FILING DATE: 2002-01-04  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
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PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/28565  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30911  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US00/00219  
PRIOR FILING DATE: 2000-01-05  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 189  
LENGTH: 2917  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-909-320-189

Alignment Scores:  
Pred. No.: 0 Length: 2917  
Score: 3064.00 Matches: 585  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 10 Gaps: 0

US-09-864-711-14 (1-585) x US-09-909-320-189 (1-2917)

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US-09-909-088B-189
; Sequence 189, Application US/09909088B
; Patent No. US20020146709A1
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## GENERAL INFORMATION:

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; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gottlieb, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
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; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
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; APPLICANT: Pan, James
; APPLICANT: Peoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
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; FILE REFERENCE: 10456-14
; CURRENT APPLICATION NUMBER: US/09/909,088B
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
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; PRIOR FILING DATE: 1999-09-08
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; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-909-088B-189
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## Alignment Scores:

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Pred. No.: 0 Length: 2917
Score: 3064.00 Matches: 585
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0
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US-09-864-711-14 (1-585) x US-09-909-088B-189 (1-2917)

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 ; Sequence 189, Application US/09905291A  
 ; Patent No. US20020160374A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Genentech, Inc.  
 ; APPLICANT: Ashkenazi, Avi  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Fong, Sherman  
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 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: 10466-14  
 ; CURRENT APPLICATION NUMBER: US/09/905,291A  
 ; CURRENT FILING DATE: 2001-07-12  
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414  
 ; PRIOR FILING DATE: 2000-02-22  
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 ; PRIOR FILING DATE: 1999-07-07  
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 ; PRIOR FILING DATE: 2000-01-05  
 ; NUMBER OF SEQ ID NOS: 423  
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 ; LENGTH: 2917  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-905-291A-189

## Alignment Scores:

Pred. No.: 0 Length: 2917  
 Score: 3064.00 Matches: 585  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 10 Gaps: 0

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 DB 1330 TTGACGTTTCAATAGTTTACGTGACTCAGCAAGAAATCAAGAACTGCTTTGTCTCTAC 1389  
 QY 121 TyrPhePheSerProAsnLleSerLleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140  
 DB 1390 TACTTCTCTCTCTCAACTCTATCTTCCAAACTGTGGCGGTACCTGAGTACCTTGGAA 1449  
 QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValTrp 160  
 DB 1450 GSATCTCTCAACAGCCCAATATCCAAAGCCGATCTGAGCTGGCTTATGTGTGTGG 1509

QY 161 HistLeuGlnValGluLysAspTyrLysLleLysLeuAsnPheLysGluLlePheLeuGlu 180  
 DB 1510 CACATCAAGTGGAGAAAGATTACAAAGATAAACTAAACTTCAAGAGATTTTCCTAGAA 1569  
 QY 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200  
 DB 1570 ATAGACAAACAGTGCAAATTTGATTTCTTGCCATCATGATGGCCCTCCACCACTCT 1629  
 QY 201 GlyLeuIleGlnValCysGlyArgValThrProThrPheGluSerSerSerAsnSer 220  
 DB 1630 GGCCTGATTGGACAGTCTGTGGCGGTGACTCCACCTTCGAATCGTCATCAAACTCT 1689  
 QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240  
 DB 1690 CTGACTGTCTGTGTGCTACAGATTATGCCAATCTTACCGGGGATTTCTGCTCTCTAC 1749  
 QY 241 ThrSerLleTyrAlaGluAsnLleAsnThrThrSerLeuThrCysSerSerAspArgMet 260  
 DB 1750 ACCTCAATTTATGCAGAAACATCAACACTACATCTTTAACTTGCTCTCTGCACAGATG 1809  
 QY 261 ArgValLleIleSerLysSerTyrLleGluAlaPheAsnSerAsnGlyAsnGlnLeuGln 280  
 DB 1810 AGAGTTATTAAGCAATCTTCTAGAGCTTTTAACTCTAATGGGAATACTTGCATA 1869  
 QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300  
 DB 1870 CTAAAGACCAACTTGCAGACCAAAATTAATAATGTTGGAATTTCTGCTCTCTT 1929  
 QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerLleThrTyrThrAsnLleIle 320  
 DB 1930 AATGGATGTGTACAATCAGAAAGGTAGAGATCACTCAATTACTTACCAATAATAATC 1989  
 QY 321 ThrPheSerAlaSerSerThrSerGluValIleThrArgGlnLysGlnLeuGlnLleIle 340  
 DB 1990 ACCTTTCTGCATCCCACTTCTGAGTGATCACCGCTCAGAAACAACCTCAGATTAT 2049  
 QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluLleIleTyrIleThrGluAspSer 360  
 DB 2050 GTGAGTGTGAAATGGGACATAATTTCTACAGTGAGATAATATACATACAGAGATGAT 2109  
 QY 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380  
 DB 2110 GTAATACAAAGTCAAAATGCATGGGCAAAATATACACAGCATGGCTCTTTTGAATCC 2169  
 QY 381 AsnSerPheGlyLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
 DB 2170 AATTCTATTGAAAGACTATATCTGAATCACCATATTTATGTGGAATTTGAACCAACTCT 2229  
 QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420  
 DB 2230 TTGTTCAGTTAGTCTGTGCACACCTCAGATCCAAATTTGGTGTGTCTTTGATACCTGT 2289  
 QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuLleLysSerGlyCys 440  
 DB 2290 AGAGCTCTCCACCTCTGACTTTGCATCTCCAACTACAGCACTAATCAAGAGTGGATG 2349  
 QY 441 SerArgAspGlnThrCysLysValTyrProLeuPheGlyHisTyrGlyArgPheGlnPhe 460  
 DB 2350 AGTCGAGATGAATGTAAGTGATCTCCCTTATTTGGACACTATGGAGATTTCCAGTTT 2409  
 QY 461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyrLeuGlnCysLysValLeuIle 480  
 DB 2410 AATGCTTTAAATTCCTTGAGAGATGAGCTCTGTGATCTGCAGTGAAGATTTTGATA 2469  
 QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
 DB 2470 TGTGATACAGTGAACCACTGCTGCTGCAATCAAGTTGTGTCTCCAGAAACAACGA 2529  
 QY 501 AspIleSerSerTyrLysTrpLysThrAspSerLleIleGlyProLleArgLeuLysArg 520  
 DB 2530 GACATTTCTTCAATAAATGGAACAGATTCCTCATCATAGCACTTCTGCTCTGAAAAAG 2589  
 QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540

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Db 2590 GATCGAAGTCCAAATTCAGGATTCAGCATCAACACATCGGAAAGAACTCCA 2649
QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560
Db 2650 AACCAAGCTTTCAACAGTGTGCATCTGTTTCCCTCATGGTCTAGCTCTGAATGTGGTG 2709
QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrIleValGln 580
Db 2710 ACTGTAGCAACATCACAGTGAAGCATTTTGTAAATCAACGGGCAGACTACAAATACAG 2769
QY 581 LysLeuGlnAsnTyr 585
Db 2770 AAGCTGCAAGACTAT 2784

RESULT 5
US-09-902-853-189
; Sequence 189, Application US/09902853
; Publication No. US20020192659A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,853
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564

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; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-902-853-189

Alignment Scores:
Pred. No.: 0 Length: 2917
Score: 3064.00 Matches: 585
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-09-864-711-14 (1-585) x US-09-902-853-189 (1-2917)

QY 1 MetaGluAlaGluGlyAsnAlaSerCysThrValSerLeuGlyGlyAlaAsnMeta 20
Db 1030 ATGGCGAGGCTGAAGGCAATGCAAGTCACAGTCAGTCTAGGGGGTGCCAAATGSCA 1089
QY 21 GluThrHisLysAlaMetIleLeuGlnLeuAsnProSerGluAsnCysThrIle 40
Db 1090 GAGACCCACAAAGCCATGATCTGCAACTCAATCCAGTGAAGTGCACCTGGACAATA 1149
QY 41 GluArgProGluAsnLysSerIleArgIleIlePheSerTyrValGlnLeuAspPro 60
Db 1150 GAAGACCCAGAAACAAAGCATCATGATATCTTTCCATATCTCCAGCTTGATCCAGAT 1209
QY 61 GlySerCysGluSerGluAsnIleLysValPheAspGlyThrSerSerAsnGlyPro 80
Db 1210 GGAAGCTGTGAAGTGAAAGCAATTAAGTCTTGACGGAACCTCCAGCAATGGGCTCTG 1269
QY 81 LeuGlyGlnValCysSerLysAsnAspTyrValProValPheGluSerSerSerThr 100
Db 1270 CTAGGGCAAGTCTCAGCTAAACAGCATATGTTCTCTGTTTGAATCATCATCCAGTACA 1329
QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPhe 120
Db 1330 TTGACGTTTCAATAGTACTGACTCAGCAAGATTCAAAGAACTGTCTTTGTCTCTAC 1389
QY 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeu 140
Db 1390 TACTTCTTCTCTCTCAATCTCTATTCACAACTGTGGGGTTACCTGGATACCTTGGAA 1449
QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysVal 160
Db 1450 GGATCCTTCACAGCCCAATTAACCAAGCCGATCTCTGAGCTGCTTATTTGTGTGG 1509
QY 161 HisIleGlnValGlnLysAspTyrLysIleLysLeuAsnPheLysGlnIlePheLeu 180
Db 1510 CACATACAAAGTGGAGAAAGATTACAAGATAAACTTAAAGAGATTTTCTCTAGAA 1569
QY 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsn 200
Db 1570 ATAGCAACACAGTGCAAATTTGATTTCTGCCATCATATGATGGCCCTCCACCACTCT 1629
QY 201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSerSerAsn 220
Db 1630 GGCTTGATGGACAAGTCTGTGGCCGTGTGATCCCATTCGATCGATCATCAACTCT 1689
QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSer 240

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Db 1690 CTGAGTGTGCTGTCTACAGATATGCCAATCTTACCAGGGAATTTCTGCTTCCTAC 1749  
QY 241 ThrSerIleYrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260  
Db 1750 ACCTCATTTATTCGAGAAACATCAACACTACATCTTTAACTGTCTCTCTGACAGGATG 1809  
QY 261 ArgValIleIleSerIlySerTyrlLeuGluAlaPheAsnSerAsnGlyAsnAsnLeuGln 280  
Db 1810 AGAGTTATTTATAGCAATPCTTACTAGAGCTTTTAACTCTAATPGGAATACTTGCAA 1869  
QY 281 LeuIlyAspProThrCysArgProIlySerLeuSerAsnValValGluPheSerValProLeu 300  
Db 1870 CTAAACACCCACTGACAGCAAAATATCAAAATGTTGGAAATTTCTGCTCCCTCT 1929  
QY 301 AsnGlyCysGlyThrIleArgIlyValGluAspGlnSerIleThrTyThrAsnIleIle 320  
Db 1930 AATGGATGTGGTACATCAGAAAGTAGAAGATCAGTCAATTACWTACACCAATAATATC 1989  
QY 321 ThrPheSerAlaSerThrSerGluValIleThrArgGlnIlyGlnLeuIleIle 340  
Db 1990 ACCTTTCTGCATCTCACTTCGAGTGATCACCCTGCAGAACACACTCCAGATTAT 2049  
QY 341 ValIlyCysGluMetGlyHisAsnSerThrValGluIleIleTyrlleThrGluAspAsp 360  
Db 2050 GTGAAGTGTGAAATGGACATAAATCTACAGTGGAGATAATATACATAACAGAGATGAT 2109  
QY 361 ValIleGlnSerGlnAsnAlaLeuGlyIlyTyThrAsnThrSerMetAlaLeuPheGluSer 380  
Db 2110 GTAATCAAAAGTCAAAATGCATGGGCAATATACACCAAGCATGGCTTTTGTGATCC 2169  
QY 381 AsnSerPheGluIlyThrIleLeuGluSerProTyThrValAspLeuAsnGlnThrLeu 400  
Db 2170 AATTCATTTGAAAGACTATCTTGATCACCATAATATGTGGATTTGAACCAACTCT 2229  
QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheIleAspThrCys 420  
Db 2230 TTTGTTCAGTGTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTCTTTTGATACCTGT 2289  
QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyThrAspLeuIleIlySerGlyCys 440  
Db 2290 AGAGCTCTCCACCTCTGCATTTGCATCTCCACCTAGACCTAATCAAGAGTGGATGT 2349  
QY 441 SerArgAspGluThrCysIlyValTyProLeuPheGlyHisTyrlGlyArgPheGlnPhe 460  
Db 2350 AGTCAGATGAAACTGTGAAGGTGTATCCCTTATTTGGACACTATGGGAGATTCAGTTT 2409  
QY 461 AsnAlaPheIlySerPheLeuArgSerMetSerValTyrlLeuGlnCysIlyValIleIle 480  
Db 2410 AATGCCITTTAAATCTTGAGAAAGTATGAGCTCTGTCTGCTGAGTGTAAAGTTTGTAT 2469  
QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerIlyArg 500  
Db 2470 TGTGATAGACTGACACCACTCTCGCTGCAATCAAGTGTGTCTCCAGAGCAACCA 2529  
QY 501 AspIleSerSerTyrlIlyThrIlyThrAspSerIleIleGlyProIleArgLeuIlyArg 520  
Db 2530 GACATTTCTCATATAATGGAACACAGATTCATCATAGGACCCATTCGCTGAAAGG 2589  
QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540  
Db 2590 GATCGAAGTGAAGTGCATTCAGGATTTTCAGCATGAACACATCGCGGAGAACTCCA 2649  
QY 541 AsnGlnProPheAsnSerValHisIleuPheSerPheMetValLeuAlaLeuAsnValVal 560  
Db 2650 AACCCAGCCTTTCAACAGTGTGCATCTGTTTCCCTTCATGTTTCTAGCTCTGAATGTGGTG 2709  
QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrlIlySerGln 580  
Db 2710 ACTGAGGCAAAATCACAGTGGAGCATTTTGTAAATCAACGGCAGACATACAAATACCAAG 2769  
QY 581 LysLeuGlnAsnTyrl 585  
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Db 2770 AAGCTGCAGAACTAT 2784  
RESULT 6  
US-09-907-824-189  
; Sequence 189, Application US/09907824  
; Publication No. US20020197671A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gunney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kijavlin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/907,824  
; CURRENT FILING DATE: 2001-07-17  
; PRIOR APPLICATION NUMBER: 09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05



; NUMBER OF SEQ ID NOS: 423

; SEQ ID NO 189

; LENGTH: 2917

; TYPE: DNA

; ORGANISM: Homo Sapien

US-09-907-824-189

Alignment Scores:

Pred. No.: 0 Length: 2917

Score: 3064.00 Matches: 585

Percent Similarity: 100.00% Conservative: 0

Best local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0

DB: 10 Gaps: 0

US-09-864-711-14 (1-585) x US-09-907-824-189 (1-2917)

QY 1 MetalagluAlaGluGlyAsnAlaSerCysThrValSerLeuGlyAlaAsnMetAla 20  
 DB 1030 AFGGGGAGGCTGAAGCAATCAAGCTGCACAGTCAGTCTAGGGGGTGCCTAATATGGCA 1089

QY 21 GluThrHisLysAlaMetIleLeuGlnLeuAsnProSerGluAsnCysThrTyrIle 40  
 DB 1090 GAGACCCACAAAGCCATGATCTGCACTCAATCCAGTGAAGTGCACCTGGACAAATA 1149

QY 41 GluArgProGluAsnLysSerIleArgIleIlePheSerTyrValGlnLeuAspProAsp 60  
 DB 1150 GAAAGACCAAGAAACAAAGCATCAGAAATATCTTTTCTATGTCAGCTGATCCAGAT 1209

QY 61 GlySerCysGlnSerGluAsnIleLysValPheAspGlyThrSerAsnGlyProLeu 80  
 DB 1210 GGAAGCTGTGAAGTGAACAACTAAAGCTTTGACGGAACCTCCAGCAATGGGCCCTG 1269

QY 81 LeuGlyGlnValCysSerLysAsnAspTyrValProValPheGluSerSerSerThr 100  
 DB 1270 CTAGGGCAAGTCTGCAGTAAAAACGACTATGCTTCTGTAATGCAATCATCCAGTACA 1329

QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPheTyr 120  
 DB 1330 TTGACGTTTCAATATGTTACTGACTCAGCAAGAAATCAAGAACTGTCTTTGCTCTAC 1389

QY 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140  
 DB 1390 FACITCTTCTCTCTCAATCTCTATTCCAACTGTGGCGTTCCTGGATACCTTGGAA 1449

QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGlnLeuAlaTyrCysValTrp 160  
 DB 1450 GGATCCTTCACCAAGCCCAATACCCAAAGCCGATCCTGAGTGGCTTATTTGTGTGG 1509

QY 161 HisIleGlnValGluLysAspTyrLysIleLysLeuAsnPheLysGlnIlePheLeuGlu 180  
 DB 1510 CACATACAAAGTGGGAAGATTACAGATATAAATAAATCAACTTCAAGAGATTTCCTAGAA 1569

QY 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200  
 DB 1570 ATAGACAAACAGTGCAAAATTTGATTTCTTCCCATCTATGATGGCCCTCCACCAACTCT 1629

QY 201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSerSerAsnSer 220  
 DB 1630 GGCCGTGATGACARGCTGTGGCGGTGTGACTCCCACTCCCACTTCGAATCGTCAAAACTCT 1689

QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240  
 DB 1690 CTGACTGTCTGTGTCTACAGATTATGCCAATTTTACCGGGGATTTCTGCTCTCTAC 1749

QY 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260  
 DB 1750 ACCTCAATTTATGCAGAAAAACATCAACACTACATCTTTAACTTGTCTCTCTCTGACAGGATG 1809

QY 261 ArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnLeuGln 280  
 DB 1810 AGAGTTATTATTAAGCAATCTCACTACCTAGAGGCTTTAACTCTAATGGGAATAACTTGCAA 1869

QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300  
 DB 1870 CTRAAAGACCCACACTTGCAGACCAAAATATCAAAATGTTGTGGAATTTTCTGCTCCTCTT 1929

QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsnIleIle 320  
 DB 1930 AATGGATGTGTACAAATCAGAAAGTGAAGATCACTCAATTTACTTACCAATAATATC 1989

QY 321 ThrPheSerAlaSerSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleIle 340  
 DB 1990 ACCTTTTCGATCCTCACTCTGAGTGTATCACCCTCAGAAACAACTCCAGATTATT 2049

QY 341 ValLysCysGlnMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspAsp 360  
 DB 2050 GTGAAGTGTGAATGGACATAATCTACAGTGGAGATAATATACATAACAGAGATGAT 2109

QY 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380  
 DB 2110 GTAATCAAAAGTCAAAATGCACTGGGCAATATAACACCAAGATGGCTCTTTTGAATCC 2169

QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
 DB 2170 AATTCATTTGAAAGAGCTATCTTGAATCACCATATATGTGGATTTGAACCAACTCTT 2229

QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValPheLeuAspThrCys 420  
 DB 2230 TTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTCTTCTGATACTGT 2289

QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440  
 DB 2290 AGACCTCTCCCACTCTGACTTTCATCTCCACCTACGACTTAATCAAGATGGATGT 2349

QY 441 SerArgAspGlnThrCysLysValTyrProLeuPheGlyHisTyrGlyArgPheGlnPhe 460  
 DB 2350 AGTCAGATGAAACTTGTAAAGTGTATCCCTTATTTGGACACTATGGAGATTCAGTTT 2409

QY 461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyrLeuGlnCysLysValLeuIle 480  
 DB 2410 AATGCCCTTAAATCTTGAGAAAGTATGAGCTGTGTATCTGCAGTGAAGTTTGTATA 2469

QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
 DB 2470 TGTGATAGCAGTGCACCAAGCTGCTGCTGCAATCAGGTGTGTCTCCAGAAAGCAACGA 2529

QY 501 AspIleSerSerTyrLysTrpLysThrAspSerIleIleGlyProIleArgLeuLysArg 520  
 DB 2530 GACATTTCTTCATATAAATGGAACAGATTCCATATAGGACCCATTCGCTCTGAAAGG 2589

QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGlnThrPro 540  
 DB 2590 GATCGAGTGCAGTGGCAATTCAGGATTCAGCATGAACACATCGGGAAGAACTCCA 2649

QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
 DB 2650 AACCGAGCTTTCACAGTGTGATCTGTTTTCCTTTCATGTTCTAGCTCTCAATGTGGTG 2709

QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580  
 DB 2710 ACTGTAGCGCAATCACTAGTGAGGCAATTTGTAATCAACGGGCGAGACTCAATAATACAG 2769

QY 581 LysLeuGlnAsnTyr 585  
 DB 2770 AGCTGCAGAACTAT 2784

RESULT 7

US-09-907-841-189

; Sequence 189, Application US/09907841

; Publication No. US20020198366A1

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc



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; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavib, Iwar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,841
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-841-189

Alignment Scores:
Pred. No.: 0 Length: 2917
Score: 3064.00 Matches: 585
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-09-864-711-14 (1-585) x US-09-907-841-189 (1-2917)
QY 1 MetalGluAlaGluGlyValSerLeuGlyGlyAlaAsnMetAla 20
Db 1030 ATGGCGGAGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGTGCCAATATGCGCA 1089
QY 21 GluThrHisLysAlaMetLeuGlnLeuAsnProSerGluAsnCysThrTpThrIle 40
Db 1090 GAGACCCACAAAGCCATATCTCTGCACTCAATCCAGTGAAGACTGCACCTGGACATA 1149
QY 41 GluArgProGluAsnLysSerIleArgIleIlePheSerTyrValGlnLeuAspProAsp 60

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Db 1150 GAAAGACCAAGAAACAAAGCATCAGAAATATCTTTTCTATGTCCAGCTGTATGATCAGAT 1209
QY 61 GlySerCysGluSerGluAsnIleLysValPheAspGlyThrSerSerAsnGlyProLeu 80
Db 1210 GGAAGCTGTGAAGTGAAGACATTAAGTCTTTGACGGAACCTCCAGCAATGGCCTCTG 1269
QY 81 LeuGlyGlnValCysSerLysAsnAspTyrValProValPheGluSerSerSerThr 100
Db 1270 CTAGGCAAGCTGCAAGTAAACACACTATGTTCTCTGTTATTTGAATCATCATCCAGTACA 1329
QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArcThrValPheValPheTyr 120
Db 1330 TTGACGTTTCAATATGTTACTGCTCAGCAGCAGAAATCAAGAAACGCTGTTGCTCTAC 1389
QY 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140
Db 1390 TACTTCTCTCTCTAACATCTCTATTCCAAACTGTGGGGTTACTCGATACCTTGGAA 1449
QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValTTP 160
Db 1450 GGATCCTTCACAGCCCAATTAACCAAGCCGATCCTGAGCTGGCTTATGTGTGG 1509
QY 161 HisIleGlnValGluLysAspTyrLysIleLysLeuAsnPheLysGluIlePheLeuGlu 180
Db 1510 CACATACAAAGTGGAGAAAGATTACAAAGATAAACTCAAAAGAGATTTCTTAGAA 1569
QY 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200
Db 1570 ATAGACAAACAGTGCAAATTTGATTTCTTGCCATCATGATGGCCCTCCACCACTCT 1629
QY 201 GlyLeuIleGlnValCysGlyArgValThrProThrPheGluSerSerSerAsnSer 220
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QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240
Db 1690 CTGACTGCGGTGTCTACAGATTATGCCAATTCCTACCGGGGATTTCTGCTCTCTAC 1749
QY 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260
Db 1750 AACTCAATTTATGCGAGAAACATCAACACTACATCTTAACTTGCTCTCTGACAGGATG 1809
QY 261 ArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnAsnLeuGln 280
Db 1810 AGAGTTATATAGCAAACTTACCTAGAGCTTTTAACTCTAAATGGGAATAAATTCGAA 1869
QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300
Db 1870 CTAAAGACCCCACTGCAGACCAAAATATCAAAATGTTGGAATTTCTGCTCTCTT 1929
QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsnIleIle 320
Db 1930 AATGGATGTGTACATCAAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1989
QY 321 ThrPheSerAlaSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleIle 340
Db 1990 AACTTTTCTGATCCTCACTCTGAGTGTATCACCCTGAGAAACAACTCCAGATTAAT 2049
QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleThrIleThrGluAsp 360
Db 2050 GTGAAGTGTGAATGGACATAATTTCTACAGTGGAGATATATATACATAACAGAGATGAT 2109
QY 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380
Db 2110 GTAATACAAAGTCAAAATGCACTGGGCAAAATATACACACAGATGCTCTTTTGAATCC 2169
QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400
Db 2170 AATTCATTGAAGACTATATCTGAATCACCATTATATGTTGATTTGAACCAACTCTT 2229
QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420

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Db 2230 TTGTTCAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTCCTGATACCTGT 2289  
QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuLeuLeuLeuLeuSerGlyCys 440  
Db 2290 AGAGCCTCTCCACACCTCTGAGTTTGCATCTCCAACTCAGACCTTAATCAAGAGTGGATGT 2349  
QY 441 SerArgAspGluThrCysLysValTyrProLeuPheGlyHisTyrGlyValGlyPheGlnPhe 460  
Db 2350 AGTCGAGTGAACCTTGAAGTGTATCCCTTATTTGGACACTATGGAGATTCCAGTTT 2409  
QY 461 AsnAlaPheLysPheLeuArgSerMetSerValTyrLeuGlnCysLysValLeuLeu 480  
Db 2410 AATCCCTTTAAATCTTGAGAGATATGAGCTCTGTGTATCTGCAGTGTAAAGTTTGTATA 2469  
QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
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QY 501 AspIleSerSerTyrLysTrpLysThrAspSerIleIleGlyProIleArgLeuLysArg 520  
Db 2530 GACATTTCTCATATAAATGGAACACAGATTCCATCATTAGGACCCATTCTGTCTGAAAGG 2589  
QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540  
Db 2590 GATCGAAGTCAAGTGGCAATTCAGGATTTTCAGCATGAAACACATGCGGAAGAACTCCA 2649  
QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
Db 2650 AACCGAGCTTCAACAGTGTGCATCTGTTTCTTCATGTTCTAGCTCTGATGTGGTG 2709  
QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580  
Db 2710 ACTGTAGCAATCAGATGAGGCAATTTGTAATCAACAGGCGAGACTACAATAACAG 2769  
QY 581 LysLeuGlnAsnTyr 585  
Db 2770 AGCTGCAGAACTAT 2784

RESULT 8

US-09-904-011-189  
; Sequence 189, Application US/09904011  
; Publication No. US20030003550A1

GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnovers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
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; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/904,011  
; CURRENT FILING DATE: 2001-07-11

; PRIOR APPLICATION NUMBER: 09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
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; PRIOR FILING DATE: 1999-12-02  
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; PRIOR FILING DATE: 1999-12-16  
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; PRIOR APPLICATION NUMBER: PCT/US99/30999  
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; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 189  
; LENGTH: 2917  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-09-904-011-189  
  
Alignment Scores:  
Pred. No.: 0 Length: 2917  
Score: 3064.00 Matches: 585  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 11 Gaps: 0  
  
US-09-864-711-14 (1-585) x US-09-904-011-189 (1-2917)  
QY 1 MetAlaGluAlaGluGlyAsnAlaSerCysThrValSerLeuGlyGlyAlaAsnMetAla 20  
Db 1030 ATGCCGGAGGCTGAGGCGCAATGCCAGCTGCACAGTCTAGGGGGGCGCAATATGGCA 1089  
QY 21 GluThrHisLysAlaMetIleLeuGlnLeuAsnProSerGlnAsnCysThrThrThrIle 40  
Db 1090 GAGACCCACAAAGCCATGATCTCTCAACTCAATCCCACTGAGACCTGCACCTGGACAATA 1149  
QY 41 GluArgProGluAsnLysSerIleArgIlePheSerTyrValGlnLeuAspProAsp 60  
Db 1150 GAAAGACCGAACAACAAAGCATCAGAAATTTCTTCTCTATGTCCAGCTTGATCCAGAT 1209  
QY 61 GlySerCysGluSerGluAsnLleLysValPheAspGlyThrSerSerAsnGlyProLeu 80  
Db 1210 GCAAGCTGTGAAGTGAAGAAACATTTAAAGTCTTTGACGGAACCTCAGCAATGGGCTCTG 1269  
QY 81 LeuGlyGlnValCysSerLysAsnAspTyrValProValPheGluSerSerSerThr 100  
Db 1270 CTAGGGCAAGCTCTGCAGTAAACGACTAATGTTCTCTGTTATTTGAATCATCATCCAGTACA 1329

QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPheTyr 120  
DB 1330 TTGACGTTTCAATAGTACTGACTCAGCAAGAATTCAAAGAACTGCTTTGTCTTCTAC 1389  
QY 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140  
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QY 161 HisIleGlnValGluLysAspTyrLysIleLysLeuAsnPheLysGlnIlePheLeuGlu 180  
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QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240  
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DB 1810 AGAGTTATTATTAAGCAAAATCCTACCAGAGGCTTTAACTCTAATGGGAATAACTGCA 1869  
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QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsnIleIle 320  
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QY 321 ThrPheSerAlaSerSerThrSerGluValIleThrArgGlnLysGlnLeuIleIle 340  
DB 1990 ACTTTTCTGCATCCTCAACTTCTGAAGTATCACCCTCAGAAACAACTCCAGATATT 2049  
QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAsp 360  
DB 2050 GTGAAGTGTGAATGGGACATAATCTCAGTGGAGATATATATACATACAGAGATGAT 2109  
QY 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGlnSer 380  
DB 2110 GTATAACAAGTCAAAATGCACTGGGCAAAATATAACACAGCATGCTCTTTTGAATCC 2169  
QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
DB 2170 AATCAATTTGAAGACATACCTTGATCACCATATTATGGATTTGACCAACTCTT 2229  
QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420  
DB 2230 TTGTGTCAAGTTAGTCTGCACCTCAGATCCAAATTTGGTGGTGTCTTGTGATACCTGT 2289  
QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440  
DB 2290 AGAGCCTCTCCACCTCTGACTTTGATCTCCAACTACGACCTTAATCAAGATGGATGT 2349  
QY 441 SerArgAspGluThrCysLysValTyrProLeuPheGlyHisTyrGlyArgPheGlnPhe 460  
DB 2350 AGTCGAGATGAACCTTGAGGTGTATCTCTTATTTGGACACTATGGGAGATTCAGTTT 2409  
QY 461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyrLeuGlnCysLysValLeuIle 480

DB 2410 AATCCCTTTAAATCTTGTGAGAGATGAGCTCTGTGTATCTGCACTGTAAGTTTGATA 2469  
QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
DB 2470 TGTGATAGCAGTGACCACTGCTCGCTGCAATCAAGGTGTGTCTCCAGAACCAACA 2529  
QY 501 AspIleSerSerTyrIlystrPlyThrAspSerIleIleGlyProIleArgLeuLysArg 520  
DB 2530 GACATTTCTTATATAAATGGAACACAGATTCATAGGACCATTCCTCTGAAAAGG 2589  
QY 521 AspArgSerAlaSerGlyAspSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540  
DB 2590 GATCGAAGTCAAGTGGCAATTCAGGATTTACAGATGAACACATCGGAGAACTCCA 2649  
QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
DB 2650 AACCAAGCTTTCAACAGTGTGCATCTGTTTCCCTCATGCTTAGCTCTGAATGTGGT 2709  
QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580  
DB 2710 ACTGTACGACATCACAGTGAGCATTTGTAAATCAACGGGACAGACTACAAATACCAG 2769  
QY 581 LysLeuGlnAsnTyr 585  
DB 2770 AAGCTGCAGAACTAT 2784  
RESULT 9  
US-09-906-742-189  
; Sequence 189, Application US/09906742  
; Publication No. US200300230541  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/906,742  
; CURRENT FILING DATE: 2001-07-16  
; PRIOR APPLICATION NUMBER: 09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08  
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944  
 ; PRIOR FILING DATE: 1999-09-13  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090  
 ; PRIOR FILING DATE: 1999-09-15  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547  
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 ; PRIOR FILING DATE: 2000-01-05  
 ; NUMBER OF SEQ ID NOS: 423  
 ; SEQ ID NO 189  
 ; LENGTH: 2917  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapien  
 US-09-906-742-189

## Alignment Scores:

Pred. No.: 0 Length: 2917  
 Score: 3064.00 Matches: 585  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 11 Gaps: 0

US-09-864-711-14 (1-585) x US-09-906-742-189 (1-2917)

QY 1 MetAlaGluAlaGluClyAsnAlaSerCysThrValSerLeuGlyAlaAsnMetAla 20  
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 QY 61 GlySerCysGluSerGluAsnLysValPheAspGlyThrSerSerAsnGlyProLeu 80  
 DB 1210 GGAAGCTGTGAAGTGAAACATTAAGTCTTTGACGGACCTCCAGCAATGGGCTCTG 1269  
 QY 81 LeuGlyGlnValCysSerLysAsnAspTyrValProValPheGluSerSerSerThr 100  
 DB 1270 CTAGGCAAGCTCTGCAGTAAAAAGAGACTATGTTCTCTGTATTTGAATCATCATCCAGTACA 1329  
 QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGluArgThrValPheValPheTyr 120  
 DB 1330 TTGACGTTTCAATATGTTACTGACTCAGCAAGAAATCAAGAACTGCTTTGTCTCTAC 1389  
 QY 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyClyTyrLeuAspThrLeuGlu 140  
 DB 1390 TACTCTCTCTCTTAACTATCTATTTCCAAACTGTGGGGTTACTTGATACCTTGGAA 1449  
 QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValTrp 160  
 DB 1450 GGATCCTTCACCGCCCAATATACCAAGCCGACCTCCTGAGCTGGCTTATTTGTGTGG 1509

QY 161 HisIleGlnValGluLysAspTyrLysIleLysLeuAsnPheLysGluIlePheLeuGlu 180  
 DB 1510 CACATACAAGTGGAGAAGATTACAGATAAAACATAAACTTCAAGAGATTTCCTAGAA 1569  
 QY 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200  
 DB 1570 ATAGACAAACAGTGCATAATTGATTTCTTGCACATGATGATGCGCCCTCCACCACTCT 1629  
 QY 201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSerSerAsnSer 220  
 DB 1630 GGCTGATTGGACAAGTCTGTGGCGGTGACTCCACCTTCGAATCGTCACTCAACTCT 1689  
 QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240  
 DB 1690 CTGACTGTGCTGTTCTACAGATTATGCCAATTTACTACCGGGGATTTTGTCTCTAC 1749  
 QY 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260  
 DB 1750 ACCTCAATTTATGCAAGAAACATCAACACTACATCTTTAACTTCTTCTGACAGATG 1809  
 QY 261 ArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnAsnLeuGln 280  
 DB 1810 AGAGTTATTATAAGCAAAATCTACCTAGAGGCTTTAACTCTAATGGGAATACTTGCAC 1869  
 QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300  
 DB 1870 CTAAGACCCCAACTTGCAGACCAAAATATCAATGTTGTGGAATTTCTGCTCTCTT 1929  
 QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsnIleIle 320  
 DB 1930 AATGGATGTGTACAAATCAGAAAGTAGAAGATCACTAATTAATTAACCAATAATAATC 1989  
 QY 321 ThrPheSerAlaSerSerThrGluValIleThrArgGluLysGlnLeuGlnIleIle 340  
 DB 1990 ACCTTTCTGCATCTCACTCTGAAAGTAGATCACCGTCAGAAACAACTCCAGATATT 2049  
 QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspAsp 360  
 DB 2050 GTGAAGTGTGAATGGGACATAATCTACAGTGGAGATAATATACATAACAGAAAGATGAT 2109  
 QY 361 ValIleGlnSerGluAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380  
 DB 2110 GTAATACAAGTCAAAATGCACTGGGCAATATAACACGAGCATGGCTCTTTTGAATCC 2169  
 QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
 DB 2170 AATTCAATTTGAAAAGACATATACTTGAATCACCATAATATGTTGGATTTGAACCAACTCTT 2229  
 QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValPheLeuAspThrCys 420  
 DB 2230 TTTGTTCAAGTTAGTCTCCACCTCAGATCCAAATTTGGTGGTGTCTTGTATACCTCT 2289  
 QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440  
 DB 2290 AGAGCTCTCCCACTCTGACTTTGCACTCCCACTCAGACCTAATCAAGATGGATGT 2349  
 QY 441 SerArgAspGluThrCysLysValTyrProLeuPheGlyHisTyrGlyArgPheGlnPhe 460  
 DB 2350 AGTCGAGTGAACACTGTAAAGTGTATCCCTTATTTGGACACTATGGGAGATTTCCAGTTT 2409  
 QY 461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyrLeuGlnCysLysValLeuIle 480  
 DB 2410 AATGCTTTAAATCTTGGGAAGTAGAGCTCTGTGTATCTGCAAGTTAAAGTTTGATA 2469  
 QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
 DB 2470 TGTGATAGCAGTGACCACTCTGCTCGCTCAATCAAGTTGTGTCTCCAGAACCAACA 2529  
 QY 501 AspIleSerSerTyrLysTrpThrAspSerIleIleGlyProIleArgLeuLysArg 520  
 DB 2530 GACATTTCTTCATATAAATGAAACACAGATTCCATCATAGGACCACTTCCTCTGTGAAAGG 2589



Db 1630 GGCGTATTGGACAGTCTGTGGCGGTGACTCCACCTTCGAATGTCATCAAACTCT 1689  
QY 221 LeuThrValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240  
Db 1690 CTGACTGCTGTGTGTCTACAGATTATGCCAATCTTACCGGGATTTCTGCTTCCCTAC 1749  
QY 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260  
Db 1750 ACCTCAATTTATGCAGAAACATCAACACTACATCTTTAACTTGTCTCTGACAGGATG 1809  
QY 261 ArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnLeuGln 280  
Db 1810 AGAGTTATTATAAGCAATCTACCTAGAGGCTTTTAACCTATATGGGAATACCTGGCAA 1869  
QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300  
Db 1870 CTAAGAAGCCCACTTCGACACCAAAATTAATCAATGTGTGGAAATTTCTGTCCCTCTT 1929  
QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsnIleIle 320  
Db 1930 AATGGATGTGTACAAATCAGAAAGGTAGAAGATCACTCAATTAATACCAATATAATC 1989  
QY 321 ThrPheSerAlaSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleIle 340  
Db 1990 ACCTTTTCGATCTCACTCTGAGAGTACACCGTCAGAAACAACTCCAGATATT 2049  
QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspAsp 360  
Db 2050 GTCAAGTGTGAATGGGACATAATCTACAGTGGAGATAATATACATAACAGAAGATGAT 2109  
QY 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380  
Db 2110 GTAATACAAAGTCAAAATGCCTGGGCAATATACAGTGGAGATAATATACATAACAGAAGATGAT 2169  
QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
Db 2170 AATCATTTGAAGAAGCTACTACTTGATCACTCACTATATATGTTGAGTTGACCAACTCTT 2229  
QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValPheLeuAspThrCys 420  
Db 2230 TTTGTTCAAGTTAGTCTGCACACTCAGATCCAAATTTGGTGTGTTTCTTGATACCTGT 2289  
QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440  
Db 2290 AGAGCCTCTCCACCTCTGATTTGCATCTCCAACTCAGACCTAATCAAGAGTGGATGT 2349  
QY 441 SerArgAspGluThrCysLysValTyrProLeuPheGlyHisTyrGlyArgPheGlnPhe 460  
Db 2350 AGTCGAGATGAACCTGTGAAGTGTATCCCTTATTTGGACACTATGGGAGATTCAGTTT 2409  
QY 461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyrLeuGlnCysLysValLeuIle 480  
Db 2410 AATGCCCTTTAAATCTTGAGAAGTATGAGCTCTGTATCTGCAGTGTAAAGTTTGATA 2469  
QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
Db 2470 TGTGATGAGAGTGCACCCAGCTCGCTGCATCAGGTGTGCTCTCCAGAACCAACGA 2529  
QY 501 AspIleSerSerTyrLysTrpLysThrAspSerIleIleGlyProIleArgLeuLysArg 520  
Db 2530 GACATTCATCATATAATGAAGAAACAGATTCATCATTAGGACCCATTCGTCGAAAGG 2589  
QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540  
Db 2590 GATCGAAGTCAAGTGGCAATTCAGGATTTTCAGCATGAACACATGCGGAAGAACTCCA 2649  
QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
Db 2650 AACAGCGCTTCAACAGTGCATCTCTTTTCTTCATGGTTCTAGCTCTGATGGTGG 2709  
QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580  
Db 2710 ACTGTAGCGCAATCACAGTGGGCAATTTGTAAATCAACGGGCGAGACTACAAATACCA 2769

QY 581 LysLeuGlnAsnTyr 585  
Db 2770 AAGCTGCAGAACTAT 2784  
RESULT 11  
US-09-907-613-189  
; Sequence 189, Application US/09907613  
; Publication No. US20030027145A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary B.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kijavlin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/907,613  
; PRIOR FILING DATE: 2001-07-17  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219

; PRIOR FILING DATE: 2000-01-05

; NUMBER OF SEQ ID NOS: 423

; SEQ ID NO 189

; LENGTH: 2917

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-907-613-189

## Alignment Scores:

Pred. No.: 0 Length: 2917  
Score: 3064.00 Matches: 585  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 11 Gaps: 0

US-09-864-711-14 (1-585) x US-09-907-613-189 (1-2917)

QY 1 MetalGluAlaGluGlyAsnAlaSerCysThrValSerLeuGlyGlyAlaAsnMetAla 20  
DB 1030 ATGGCGGAGGCTGAAGCAATGCAAGCTGCACAGTCACTAGGCGGTGCCAATATGGCA 1089  
QY 21 GluThrHisLysAlaMetIleLeuGlnLeuAsnProSerGluAsnCysThrTrpIle 40  
DB 1090 GAGACCCCAAGCCATGATCTGCACCTCAATCCAGTGAGAACTGCACCTGGACAATA 1149  
QY 41 GluArgProGluAsnLysSerIleArgIleIlePheSerTyrValGlnLeuAspProAsp 60  
DB 1150 GAAAGCCAGAAAACAAAGCATCATGATTTTCCATGTCCAGCTTGATCCAGAT 1209  
QY 61 GlySerCysGluSerGluAsnIleLysValPheAspGlyThrSerSerAsnGlyProLeu 80  
DB 1210 GGAAGCTGTGAAGTGAAACATTAAGTCTTTGACGGAACCTCCAGCAATGGGCTGTG 1269  
QY 81 LeuGlyGlnValCysSerLysAsnAspTyrValProValPheGlnSerSerSerThr 100  
DB 1270 CTAGGCGAAGCTGCAGTAAACAGACTATGTCTGTATTTGAATCATCATCCAGTACA 1329  
QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPheTyr 120  
DB 1330 TTGACGTTTCAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGCTCTTCTCTTAC 1389  
QY 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140  
DB 1390 TACTTTCTCTCTCTACATCTCTATTCGAACTGTGGCGGTACCTGGATACCTTGGAA 1449  
QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGlnLeuAlaTyrCysValTrp 160  
DB 1450 GGATCCTTCACCGCCCAATTACCCAAAGCCGCACTCCTGAGCTGGCTTATTTGTGTGG 1509  
QY 161 HisIleGlnValGluLysAspTyrLysIleLysLeuAsnPhelLysGluIlePheLeuGlu 180  
DB 1510 CACATCAAGTGGAGAGATACAGATAAANCTTAACATTCAGAGATTTTCCTAGAA 1569  
QY 181 IleAspLysGlnCysLysPheAspPheLeuAlaIleTyrAspGlyProSerThrAsnSer 200  
DB 1570 ATAGCAAAACAGTGCBAATTTGATTTCTTGCCATCTATGATGSCCCCTCCACCACTCT 1629  
QY 201 GlyLeuIleGlnValCysGlyArgValThrProThrPheGlnSerSerSerAsnSer 220  
DB 1630 GGCTGATTTGGACAGTCTGTGGCCGTGTGACTCCCTCCAGTTCGAAATCGTCATCAACTCT 1689  
QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240  
DB 1690 CTGACTGTGTGTCTCTACAGATTATGCCAATTTCTACCGGGGATTTCTGCTCTCTAC 1749  
QY 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260  
DB 1750 ACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTCTCTCTGACAGGATG 1809  
QY 261 ArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnAsnLeuGln 280  
DB 1810 AGAGTTATTATAAGCAAAATCTACCTAGAGGCTTTTAACTCTAATGGGAATAACTTGCAA 1869

QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300  
DB 1870 CTAAGAGACCCAACTTGAGCAAAATATCAAAATGTTGGGAATTTCTGCTCCCTCTT 1929  
QY 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsnIleIle 320  
DB 1930 AATGGATGGTACAAATCAGAAAGTAGAAGTCACTCAATTAATACCAATAAATC 1989  
QY 321 ThrPheSerAlaSerSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleIle 340  
DB 1950 ACCTTTTCTGCATCTCAACTCTGAAGTGCATCCCGTCAGAAACAACTCCAGATATT 2049  
QY 341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspAsp 360  
DB 2050 GTGAGTGTGAATGGACATAATCTACAGTGGAGTAATATACATAACAGAGATGAT 2109  
QY 361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380  
DB 2110 GTAATACAAAGTCAAAATGCATGGCAAAATATAACACCAAGCATGGCTCTTTTGAATCC 2169  
QY 381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
DB 2170 AATTCATTTGAAAGACTATCTTGAATCACCATAATATGATGGATTTGAACCAAACTCTT 2229  
QY 401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420  
DB 2230 TTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGTGTTCTTGATACCTGT 2289  
QY 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440  
DB 2290 AGAGCTCTCCCACTCTGACTCTTCATCTCCAACTCAGACCTAATCAAGATGGATGT 2349  
QY 441 SerArgAspGluThrCysLysValTyrProLeuPheGlyHisTyrGlyArgPheGlnPhe 460  
DB 2350 AGTCGAGATGAAACTTGTAAAGTGTATCCCTTATTTGGACACTATGGAGATCCAGTTT 2409  
QY 461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyrLeuGlnCysLysValLeuIle 480  
DB 2410 AATGCCCTTAAATCTTGAGAAAGTATGAGCTCTGTATCTCAGTGTAAAGTTTGATA 2469  
QY 481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
DB 2470 TGTGATAGCAGTGACCAACAGTCTCGCTGCAATCAAGTTGTCTCCAGAGCAACGA 2529  
QY 501 AspIleSerSerTyrLysTrpLysThrAspSerIleIleGlyProIleArgLeuLysArg 520  
DB 2530 GACATTTCTTCATATAAATGGAAAAACAGATTCATCATAGGACCACTCTGCTGAAAGG 2589  
QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540  
DB 2590 GATCGAGTGCAGTGGCAATTCAGGATTCAGCATGAAACACATGCGGAGAACTCCA 2649  
QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
DB 2650 AACCAGCCTTCAACAGTGTGCATCTGTTTTCCTTCATGTGTTCTAGCTCTCAATGGTGG 2709  
QY 561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580  
DB 2710 ACTGTAGGCAATCACTAGTGGCAATTTGTAAATCAAGGGGACAGACTACAAATACAG 2769  
QY 581 LysLeuGlnAsnTyr 585  
DB 2770 AAGCTGCAGAACTAT 2784

## RESULT 12

US-09-907-942-189

; Sequence 189, Application US/09907942

; Publication No. US20030027146A1

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David



; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, A.  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, Christopher J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Hillan, Kenneth, J.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Kather, Jennie P.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William, I.  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: 10466-14  
 ; CURRENT APPLICATION NUMBER: US/09/907,942  
 ; CURRENT FILING DATE: 2002-01-22  
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414  
 ; PRIOR FILING DATE: 2000-02-22  
 ; PRIOR APPLICATION NUMBER: US 60/143,048  
 ; PRIOR FILING DATE: 1999-07-07  
 ; PRIOR APPLICATION NUMBER: US 60/145,698  
 ; PRIOR FILING DATE: 1999-07-26  
 ; PRIOR APPLICATION NUMBER: US 60/146,222  
 ; PRIOR FILING DATE: 1999-07-28  
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594  
 ; PRIOR FILING DATE: 1999-09-08  
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944  
 ; PRIOR FILING DATE: 1999-09-13  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090  
 ; PRIOR FILING DATE: 1999-09-15  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547  
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 ; PRIOR APPLICATION NUMBER: PCT/US99/23089  
 ; PRIOR FILING DATE: 1999-10-05  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214  
 ; PRIOR FILING DATE: 1999-11-29  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313  
 ; PRIOR FILING DATE: 1999-11-30  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564  
 ; PRIOR FILING DATE: 1999-12-02  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565  
 ; PRIOR FILING DATE: 1999-12-02  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095  
 ; PRIOR FILING DATE: 1999-12-16  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911  
 ; PRIOR FILING DATE: 1999-12-20  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999  
 ; PRIOR FILING DATE: 1999-12-20  
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219  
 ; PRIOR FILING DATE: 2000-01-05  
 ; NUMBER OF SEQ ID NOS: 423  
 ; SEQ ID NO 189  
 ; LENGTH: 2917  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-907-942-189  
 Alignment Scores:  
 Pred. No.: 0  
 Score: 3064.00  
 Percent Similarity: 100.00%  
 Best Local Similarity: 100.00%

Length: 2917  
 Matches: 585  
 Conservative: 0  
 Mismatches: 0

Query Match: 100.00% Indels: 0  
 DB: 11 Gaps: 0  
 US-09-864-711-14 (1-585) x US-09-907-942-189 (1-2917)  
 QY 1 MetAlaGluAlaGluGluYasnAlaSerCysThrValSerLeuGlyGlyAlaAsnMetAla 20  
 Db 1030 ATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCACTAGGGGGTGCACATATGGCA 1089  
 QY 21 GluThrHisIslaMetIleLeuGlnLeuAsnProSerGluAsnCysThrTrpThrIle 40  
 Db 1090 GAGACCCACAAAGCCATGATCTGCAACTCAATCCAGTGAAGATGCACTGCACATGCAATA 1149  
 QY 41 GluArgProGluAsnLysSerIleArgIleIlePheSerTyrValGlnLeuAsnProAsp 60  
 Db 1150 GAAGACCCAGAAACAAAGACATGCAATATCTTCTGATGCGACGATGATCCAGAT 1209  
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 QY 81 LeuGlyGlnValCysSerLysAsnAspTyrValProValPheGluSerSerSerThr 100  
 Db 1270 CTAGGGCAAGCTGCGAGTAAACAGACTATGTTCTGATTTGAATCATCATCATCATCA 1329  
 QY 101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPheTyr 120  
 Db 1330 TTGACGTTTCAATAGTACTGACTCAGCAAGAAATTCAGAGACTGCTTTGTCTCTAC 1389  
 QY 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140  
 Db 1390 TACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1449  
 QY 141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValTrp 160  
 Db 1450 GGATCCTTCACAGCCCAATTAACCAAGCCGACCTGAGCTGGCTTATGTGTGTGG 1509  
 QY 161 HistGlnValGluLysAspTyrIleLysLeuAsnPheLysGluIlePheLeuGlu 180  
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 Db 1570 ATAGACAAACAGTGCATAATTTGATTTCTTGGCCATCTATGATGGCCCTCCACCACTCT 1629  
 QY 201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSerSerAsnSer 220  
 Db 1630 GGCTGATTGGACAGTCTGTGGCCGTGTGACTCCACCTTCGAATCGTCACTCAACTCT 1689  
 QY 221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240  
 Db 1690 CTGACTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1749  
 QY 241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260  
 Db 1750 ACCTCAATTTATGCAGAAACATCACTACATCACTTTTAACTTGCTCTCTGACAGGATG 1809  
 QY 261 ArgValIleIleSerLysSerTyrLeuGluAlaPheAsnSerAsnGlyAsnAsnLeuGln 280  
 Db 1810 AGAGTTATTATAAGCAATCTTACCTAGAGCTTTTAACTTAATGGGAATAACTTGCAT 1869  
 QY 281 LeuLysAspProThrCysArgProLysLeuSerAsnValValGluPheSerValProLeu 300  
 Db 1870 CTAAGAGCCCACTTGCAGACCAAAATTTCAATTTGTTGGAATTTTCTGTCTCTCTCT 1929  
 QY 301 AsnGlyCysGlyThrIleArgLysValGluAspLysSerIleThrTyrThrAsnIleIle 320  
 Db 1930 AATGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1989  
 QY 321 ThrPheSerAlaSerSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleIle 340  
 Db 1990 ACCTTTCTGCATCTCTCACTTCTGAAGTGATCACCCGTCAGAAACAACCTCCAGATTAT 2049





1090 GAGNCCCAAAAGCCATGATCCTGCAACTCAATCCAGAGAACTCCACTGACCAATA 1149  
41 GluArgProGluAsnLysSerIleArgIleIlePheSerTyrValGlnLeuAspProAsp 60  
1150 GAAAGCAGCAAAACAAAGCATCAGAAATATCTTCTCTATGTCAGCTTGATCCAGAT 1209  
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1210 GGAAGCTGTGAAGTGAAGAAATTAAGTCTTTGACGGAACCTCCAGCAATGGGCTCTG 1269  
81 LeuGlyGlnValCysSerLysAsnAspTyrValProValPheGluSerSerSerThr 100  
1270 CTAGGGCAAGCTCTGCAGTAAACAGCACTATGTTCTCTGATTTGAATCATCATCCAGTACA 1329  
101 LeuThrPheGlnIleValThrAspSerAlaArgIleGlnArgThrValPheValPheTyr 120  
1330 TTGACGTTTCAATAGTTACTGACTCAGCAAGAAATTCAAAGAACTGCTTTGTTCTTAC 1389  
121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140  
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141 GlySerPheThrSerProAsnTyrProLysProHisProGluLeuAlaTyrCysValTrp 160  
1450 GGATCCTTCACCAAGCCCAATTAACCAAGCCGCACTCCCTGAGCTGGCTTATGTTGTGG 1509  
161 HistIleGlnValGluLysAspTyrLysIleLysLeuAsnPheLysGluIlePheLeuGlu 180  
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201 GlyLeuIleGlyGlnValCysGlyArgValThrProThrPheGluSerSerSerAsnSer 220  
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221 LeuThrValValLeuSerThrAspTyrAlaAsnSerTyrArgGlyPheSerAlaSerTyr 240  
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241 ThrSerIleTyrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260  
1750 ACCCAATTTATCAGAAACATCAACACTACATCTTTAACTGTCTCTCTGACAGAGTG 1809  
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301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrThrAsnIleIle 320  
1930 AATGGAGTGGTCAATCAAGAGTAGAGATCAGTCAATTAATTAACCAATTAATCAATC 1989  
321 ThrPheSerAlaSerThrSerGluValIleThrArgGlnLysGlnLeuGlnIleIle 340  
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341 ValLysCysGluMetGlyHisAsnSerThrValGluIleIleTyrIleThrGluAspAsp 360  
2050 GTGAAGTGTGAATGGGACATAATTTCTAGCTGGAGATATATACATACAGAGATGAT 2109  
361 ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380  
2110 GTAAATCAAACTCAAAATGCATGGGCAAAATTAACACACAGCATGGCTCTTTTGAATCC 2169  
381 AsnSerPheGluLysThrIleLeuGluSerProTyrTyrValAspLeuAsnGlnThrLeu 400  
2170 AATTCATTTGAAAGACTACTTCAATCAACATATATGTTGATTTGAACCAAACTCTT 2229

401 PheValGlnValSerLeuHisThrSerAspProAsnLeuValValPheLeuAspThrCys 420  
2230 TTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGTGTTTCTTGATACCTGT 2289  
421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrAspLeuIleLysSerGlyCys 440  
2290 AGAGCTCTCCACACTCTGACTTTGCATCTCCACCTACGACCTAATCAAGAGTGGATGT 2349  
441 SerArgAspGluThrCysLysValTyrProLeuPheGlyHisTyrGlyArgPheGlnPhe 460  
2350 AGTCGAGATGAACCTTCTAAGTGTATCCCTTATTTCGACACTATGGGAGATTCAGATT 2409  
461 AsnAlaPheLysPheLeuArgSerMetSerSerValTyrLeuGlnCysLysValLeuIle 480  
2410 AATGCCTTTAAATCTTGAAGAGATAGAGCTCTGTATCTGCAGTGAAGATTTTGATA 2469  
481 CysAspSerSerAspHisGlnSerArgCysAsnGlnGlyCysValSerArgSerLysArg 500  
2470 TGTGATAGAGTGCACCACTCTCGCTGCAATCAAGTTTGTCTCTCCAGAAACGA 2529  
501 AsnIleSerSerTyrLysTyrLysThrAspSerIleIleGlyProIleArgLeuLysArg 520  
2530 GACATTTCTCATATAAATGGAACAGATCCATCAGACCCATCTGCTGAAAAG 2589  
521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540  
2590 GATCGAAGTGCAGTGCAGTTCAGGATTCAGCATGAACACATCGGAAGAACTCCA 2649  
541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
2650 AACCAACCTTTCAACAGTGTGCATCTGTTTCTCTGTTCTAGCTCTGATGTTGTTG 2709  
561 ThrValAlaThrIleThrValArgHisPheValAsnGlnArgAlaAspTyrLysTyrGln 580  
2710 ACTGTAGCAGCAATCAGAGTGAGGCATTTTGTAAATCAACGGGCAGACTACAAATACCAG 2769  
581 LysLeuGlnAsnTyr 585  
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## RESULT 14

US-09-909-204-189  
; Sequence 189, Application US/09909204  
; Publication No. US20030036061A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same

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; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909/204
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-909-204-189

Alignment Scores:
Pred. No.: 0 Length: 2917
Score: 3064.00 Matches: 585
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 11 Gaps: 0

US-09-864-711-14 (1-585) x US-09-909-204-189 (1-2917)

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Qy 21 GluThrHisLysAlaMetLeuGlnLeuAsnProSerGluAsnCysThrTriPThrIle 40
Db 1090 GAGACCCACAAAGCCATGATCTCGCACTCAATCCAGTGAGAACTGCACCTGGACAATA 1149
Qy 41 GluArgProGluAsnLysSerLeuArgLeuIlePheSerTyrrValGlnLeuAspProAsp 60
Db 1150 GAAAGACAGAAAACAAAGCATCATGAAATTTATCTTTCCCTATGTCAGCTTGATCCAGAT 1209
Qy 61 GlySerCysGluSerGluAsnLeuLysValPheAspGlyThrSerSerAsnGlyProLeu 80
Db 1210 GGAAGCTGTGAAGGTGAAGCAATTAAGTCTTTGACCGAAACCTCCAGCAATGGGCTCTG 1269
Qy 81 LeuGlyGlnValCysSerLysAsnAspTyrrValProValPheGluSerSerSerThr 100
Db 1270 CTAGGGCAAGTCTGCATAAACAGACTATGTTCTCTGATTTGAATCATCATCCAGTACA 1329

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Qy 121 TyrPhePheSerProAsnIleSerIleProAsnCysGlyGlyTyrLeuAspThrLeuGlu 140
Db 1390 TACTTTCTCTCCPAACATCTCTATTCCAACTGTGGCGGTACCTGGATACCTTGGA 1449
Qy 141 GlySerPheThrSerProAsnTyrrProLysProHisProGluLeuAlaTyrrCysValTrp 160
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Qy 161 HisIleGlnValGluLysAspTyrrLysIleLysLeuAsnPheLysGlnIlePheLeuGlu 180
Db 1510 CACATCAAGTGGAGAAAGATTACAGATAAACAATAAACTTCAAGAGATTTTCTTAGAA 1569
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Db 1570 ATAGCAAAACAGTGCAAATTTGATTTTTCGCACTATGATGGCCCTCCACCAACTCT 1629
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Db 1630 GGCTGATTGGACAAAGTGTGGCCGTGTGACTCCCACTTCGAATCGTCATCAAACTCT 1689
Qy 221 LeuThrValValLeuSerThrAspTyrrAlaAsnSerTyrrArgGlyPheSerAlaSerTyr 240
Db 1690 CTGACTGTGCTGTGTCTACAGATTAGCAATCTTACCGGGGATTTTCTGCTTCCTAC 1749
Qy 241 ThrSerIleTyrrAlaGluAsnIleAsnThrThrSerLeuThrCysSerSerAspArgMet 260
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Qy 301 AsnGlyCysGlyThrIleArgLysValGluAspGlnSerIleThrTyrrThrAsnIleIle 320
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Qy 381 AsnSerPheGluLysThrIleLeuGluSerProTyrrTyrrValAspLeuAsnGlnIleLeu 400
Db 2170 AATTCATTTGAAAGACTATACCTGAATTCACCATATATATGATGGATTTGAACCAACTCT 2229
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Db 2230 TTTGTTCAATTTAGTCTGCACCTTCAGATCCAAATTTGGTGGTGTCTTGTGATCACTGT 2289
Qy 421 ArgAlaSerProThrSerAspPheAlaSerProThrTyrrAspLeuIleLysSerGlyCys 440
Db 2290 AGACCTCTCCCACTCTGACTTTGCATCTCCAACTACAGCTTAATCAAGATGGATGT 2349
Qy 441 SerArgAspGluThrCysLysValTyrrProLeuPheGlyHisTyrrGlyArgPheGlnPhe 460
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Db 1450 GGATCCTTCACAGCCCAATACCCAAAGCGCATCTCTGAGCTGGCTTATTTGCTGTGG 1509  
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Db 1510 CACATACAAAGTGGAGAAAGATTACAGATAAACTAACATTCAAGAGATTTTCTAGAA 1569  
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Db 1570 ATAGACAACAGTGCRAATTTGATTTCTTCCATCATGATGGCCCTCCACCAACTCT 1629  
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Db 1630 GGCTTGATGGACAAAGTCTGTGGCGTGTGACTCCACCTTCGAATCGTCATCAAACTCT 1689  
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Db 1750 ACCTCAATTTATGCAGAAACATCAACACTACATCTTTAACTTGTCTTCACAGAGATG 1809  
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QY ValIleGlnSerGlnAsnAlaLeuGlyLysTyrAsnThrSerMetAlaLeuPheGluSer 380  
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QY 521 AspArgSerAlaSerGlyAsnSerGlyPheGlnHisGluThrHisAlaGluGluThrPro 540  
Db 2590 GATCGAAGTCAAGTGGCAATTCAGGATTTTCAGCATGAAACACATGCGGAAGAACTCCA 2649  
QY 541 AsnGlnProPheAsnSerValHisLeuPheSerPheMetValLeuAlaLeuAsnValVal 560  
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Search completed: October 15, 2003, 16:09:47  
Job time : 368 secs

2

;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/234,939  
;; FILING DATE:  
;; CLASSIFICATION: 800  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US/07/649,564  
;; FILING DATE:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Sibley, Kenneth D.  
;; REGISTRATION NUMBER: 31,665  
;; REFERENCE/DOCKET NUMBER: 5051-141  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 919-881-3140  
;; TELEFAX: 919-881-3175  
;; TELEX: 575102  
;; INFORMATION FOR SEQ ID NO: 2:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 250 amino acids  
;; TYPE: amino acid  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
US-08-234-939-2

Query Match 28.0%; Score 371.5; DB 1; Length 250;  
Best Local Similarity 38.6%; Pred. No. 4.8e-30;  
Matches 95; Conservative 35; Mismatches 85; Indels 31; Gaps 7;  
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DB 8 SIGDSFVSGLKAYV-----AEFIATLLFVAGVSAIAYDKLTADAALDPAGLVAVAH 63  
QY 67 GLAIGLVATLGNISGGHFNPAVSLAAMLIIGLNLVMLPYVWSQLLGMGLAALAKAYS 126  
DB 64 AFALFVGVSIANTISGGHFNPAVTLGLAVGNITILTGFFWIAQLLGSVACLLIKYVT 123  
QY 127 PEERFNWASGAFFVQSQGVAG-----ALVAEIIITLLALAVCMGAINER--TKGPL 179  
DB 124 -----NGLA---VPTHGVAAGNLQGVVMEIITFALVYTVYATAADPKKSLGTI 172  
QY 180 APFSIGFATVVDILAGGVPVSGCMNPARAFGPVAVVANHNFHVIYWLGPILLGLVGLLI 239  
DB 173 APTAIGFTVIGANILAAAGPFGSGSMNPARSGPVPVAGDFSQNWIIYAGPLIGGLAGFTY 232  
QY 240 -RCFIG 244  
DB 233 GDVFIG 238

RESULT 5  
US-08-558-865-2  
; Sequence 2, Application US/08558865  
; Patent No. 5750386  
; GENERAL INFORMATION:  
; APPLICANT: Conkling, Mark A.  
; APPLICANT: Opperman, Charles H.  
; APPLICANT: Taylor, Christopher G.  
; TITLE OF INVENTION: Pathogen-Resistant Transgenic Plants  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park and  
; STREET: Post Office Drawer 34009  
; CITY: Charlotte  
; STATE: No. 5750386th Carolina  
; COUNTRY: U.S.A.  
; ZIP: 28234  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/558,865

;; FILING DATE:  
;; CLASSIFICATION: 800  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/236,678  
;; FILING DATE:  
;; CLASSIFICATION: 800  
;; APPLICATION NUMBER: US/07/770,082  
;; FILING DATE:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Sibley, Kenneth D.  
;; REGISTRATION NUMBER: 31,665  
;; REFERENCE/DOCKET NUMBER: 5051-166  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 919-881-3140  
;; TELEFAX: 919-881-3175  
;; TELEX: 575102  
;; INFORMATION FOR SEQ ID NO: 2:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 250 amino acids  
;; TYPE: amino acid  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
US-08-558-865-2  
Query Match 28.0%; Score 371.5; DB 1; Length 250;  
Best Local Similarity 38.6%; Pred. No. 4.8e-30;  
Matches 95; Conservative 35; Mismatches 85; Indels 31; Gaps 7;  
QY 15 SVGGRWRVSWERFVOPCLVELLGSALFIFIGCLSVIENGTD-----GLQPALAH 66  
DB 8 SIGDSFVSGLKAYV-----AEFIATLLFVAGVSAIAYDKLTADAALDPAGLVAVAH 63  
QY 67 GLAIGLVATLGNISGGHFNPAVSLAAMLIIGLNLVMLPYVWSQLLGMGLAALAKAYS 126  
DB 64 AFALFVGVSIANTISGGHFNPAVTLGLAVGNITILTGFFWIAQLLGSVACLLIKYVT 123  
QY 127 PEERFNWASGAFFVQSQGVAG-----ALVAEIIITLLALAVCMGAINER--TKGPL 179  
DB 124 -----NGLA---VPTHGVAAGNLQGVVMEIITFALVYTVYATAADPKKSLGTI 172  
QY 180 APFSIGFATVVDILAGGVPVSGCMNPARAFGPVAVVANHNFHVIYWLGPILLGLVGLLI 239  
DB 173 APTAIGFTVIGANILAAAGPFGSGSMNPARSGPVPVAGDFSQNWIIYAGPLIGGLAGFTY 232  
QY 240 -RCFIG 244  
DB 233 GDVFIG 238

RESULT 6  
US-08-634-025-7  
; Sequence 7, Application US/08654025  
; Patent No. 6008436  
; GENERAL INFORMATION:  
; APPLICANT: Conkling, Mark A.  
; APPLICANT: Opperman, Charles H.  
; APPLICANT: Acado, Gregoria N.  
; APPLICANT: Song, Wen  
; TITLE OF INVENTION: Nematode Resistant Transgenic Plants  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park and  
; STREET: Post Office Drawer 34009  
; CITY: Charlotte  
; STATE: No. 6008436th Carolina  
; COUNTRY: U.S.A.  
; ZIP: 28234  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/654,025  
 ; FILING DATE:  
 ; CLASSIFICATION: 800  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/332,658  
 ; FILING DATE:  
 ; APPLICATION NUMBER: US/08/007,998  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Sibley, Kenneth D.  
 ; REGISTRATION NUMBER: 31,665  
 ; REFERENCE/DOCKET NUMBER: 5051-201  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 919-881-3140  
 ; TELEFAX: 919-881-3175  
 ; TELEX: 575102  
 ; INFORMATION FOR SEQ ID NO: 7:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 250 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-654-025-7

Query Match 28.0%; Score 371.5; DB 3; Length 250;  
 Best Local Similarity 38.6%; Pred. No. 4.8e-30;  
 Matches 95; Conservative 35; Mismatches 85; Indels 31; Gaps 7;  
 QY 15 SVGRVSWYERFVQPCVLVGLSALFIFIGLSVIENGTD-----GLLOPALAH 66  
 DB 8 SIGDSFVSGLSKAYV-----AEFIATLLFVAGVSAIAYDKLTADAALDPAGLVAVAH 63  
 QY 67 GLALGLVIAITLGNISGHNPNVSLAAMLLIGLNLVMLLPYVWSOLLGMLGAALAKAVS 126  
 DB 64 AFALFVGVSTAAISGSHLNPVILGLAVGNTTILTFGYWIAQLGSTVACILLKYVT 123  
 QY 127 PEERFWASGAATVVOEGQVAG-----ALVABEILITLLALAVCMGAINKE--TKGPL 179  
 DB 124 -----NGLA---VPTGVAAGLNGLOGVYMEIITFALVYTVYTAADPKKGSLSGTI 172  
 QY 180 APFSIGFAVTVDLAGGPVSGCMNPARAFGPVAVANHNHFWIYWLGLPILAGLVGLLI 239  
 DB 173 APIAIGIVGANILAGPFGSGSMNPARSGPVPVAVGDFSQNWITWAGPLIGGGIAGTIY 232  
 QY 240 -RCFIG 244  
 DB 233 GDVEIG 238

RESULT 7  
 US-09-372-422A-32  
 ; Sequence 32, Application US/09372422A  
 ; Patent No. 6313375  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rudolf Jung  
 ; APPLICANT: Francois Barrieu  
 ; TITLE OF INVENTION: Maize Aquaporins and Uses Thereof  
 ; FILE REFERENCE: 0919  
 ; CURRENT APPLICATION NUMBER: US/09/372,422A  
 ; CURRENT FILING DATE: 1999-08-11  
 ; PRIOR APPLICATION NUMBER: US 60/098,692  
 ; PRIOR FILING DATE: 1998-08-31  
 ; NUMBER OF SEQ ID NOS: 49  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 32  
 ; LENGTH: 262  
 ; TYPE: PRT  
 ; ORGANISM: Zea mays  
 ; US-09-372-422A-32  
 Query Match 27.7%; Score 368.5; DB 4; Length 262;  
 Best Local Similarity 37.3%; Pred. No. 1e-29;

Matches 88; Conservative 37; Mismatches 84; Indels 27; Gaps 5;  
 QY 18 GRWVSWYERFVQPCVLVGLSALFIFIGLSVIENG-----TDGLLOPALAHGLAL 70  
 DB 14 GRSEDATHPTTIRAAISSEFIATAIFVFAAGSVLSLGMKMYHDMSTAGGLVAVAHALAL 73  
 QY 71 GLVIAITLGNISGHNPNVSLAAMLLIGLNLVMLLPYVWSOLLGMLGAALAKAVSPEER 130  
 DB 74 AVAVAVANISGSHVNPVATFGVGRVSLVRAVLYWVAQLLGAVATLLRLATGGM 133  
 QY 131 ---FWASGAATVVOEGQVAG---ALVABEILITLLALAVCMGAINKE--TKGPL 182  
 DB 134 PPGFALASG-----VGDWHAIVLEAVTGLMYATVATVDPKRGHVGTIAPL 181  
 QY 183 SIGFAVTVDLAGGPVSGCMNPARAFGPVAVANHNHFWIYWLGLPILAGLVGLLI 238  
 DB 182 AVGFILGANVLAGPPDGAGNPARVFPALVGRWRHWHVYWLGPFLGAGLAGLV 237

RESULT 8  
 US-09-372-422A-34  
 ; Sequence 34, Application US/09372422A  
 ; Patent No. 6313375  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rudolf Jung  
 ; APPLICANT: Francois Barrieu  
 ; TITLE OF INVENTION: Maize Aquaporins and Uses Thereof  
 ; FILE REFERENCE: 0919  
 ; CURRENT APPLICATION NUMBER: US/09/372,422A  
 ; CURRENT FILING DATE: 1999-08-11  
 ; PRIOR APPLICATION NUMBER: US 60/098,692  
 ; PRIOR FILING DATE: 1998-08-31  
 ; NUMBER OF SEQ ID NOS: 49  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 34  
 ; LENGTH: 254  
 ; TYPE: PRT  
 ; ORGANISM: Zea mays  
 ; US-09-372-422A-34

Query Match 27.5%; Score 365.5; DB 4; Length 254;  
 Best Local Similarity 38.5%; Pred. No. 2e-29;  
 Matches 87; Conservative 35; Mismatches 81; Indels 23; Gaps 7;  
 QY 33 LVLELLSALFIFIG-----CLSVIENG---TDTGLLOPALAHGLALGLVITATLGNISGGH 84  
 DB 24 VAEEITSLIEFVAGSGSGMAFSKLTGGAATPAGLIAASLAHALALFVAVSGVANISGGH 83  
 QY 85 FNPVSLAAMLLIGLNLVMLLPYVWSOLLGMLGAALAKAVSPEERFWASGAATVVOE 144  
 DB 84 VNPATFGAFVGNISILLKALVYWVAQLLGVSACILLKIAT-----GGAALGAFSL 135  
 QY 145 OQOVA--GALVABEILITLLALAVCMGAINKE--TKGPLAFPSIGFAVTVDLAGGPVSG 200  
 DB 136 SAGVGAMNAVLEWMTFGLVTVYVAVADPKKGLDGLVIAPIAIGFIVGANILAGGAFDG 195  
 QY 201 GCMNPARAFGPVAVANHNHFWIYWLGLPILAGLVGLLIR--CFIG 244  
 DB 196 ASMPVAVSGPVPVTVGVWENHNVVWGP-LAGAAIAALVYDIIFIG 240

RESULT 9  
 US-09-372-422A-22  
 ; Sequence 22, Application US/09372422A  
 ; Patent No. 6313375  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rudolf Jung  
 ; APPLICANT: Francois Barrieu  
 ; TITLE OF INVENTION: Maize Aquaporins and Uses Thereof  
 ; FILE REFERENCE: 0919  
 ; CURRENT APPLICATION NUMBER: US/09/372,422A  
 ; CURRENT FILING DATE: 1999-08-11  
 ; PRIOR APPLICATION NUMBER: US 60/098,692











QY 181 PFSIGFATVDILAGGPGVGGCMNPARAFGPAVVANHNHFWIYWLGPGLLAGLLVGLLIR 240  
|||||  
Db 181 PFSIGFATVDILAGGPGVGGCMNPARAFGPAVVANHNHFWIYWLGPGLLAGLLVGLLIR 240  
QY 241 CFIDGKTRLLIKAR 255  
|||||  
Db 241 CFIDGKTRLLIKAR 255

## RESULT 2

US-09-981-353-63  
; Sequence 63, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 63  
; LENGTH: 262  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1804734CD1  
US-09-981-353-63

Query Match 100.0%; Score 1328; DB 10; Length 262;  
Best Local Similarity 100.0%; Pred. No. 1.1e-119;  
Matches 255; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCEPEFGNDKAREPSVGGGRWRSWYERFVQPCVLVLLGSALEFIFIGCLSVIENGTDGILL 60  
|||||  
Db 8 MCEPEFGNDKAREPSVGGGRWRSWYERFVQPCVLVLLGSALEFIFIGCLSVIENGTDGILL 67  
QY 61 QPALAHGLALGLVIATLGNISGGHFNPAVSLAAMLIGGLNLVMLPYWVSQLLGMLGAA 120  
|||||  
Db 68 QPALAHGLALGLVIATLGNISGGHFNPAVSLAAMLIGGLNLVMLPYWVSQLLGMLGAA 127  
QY 121 LAKAVSPERFWNASGAFAFVTVQOGVAGALVAEIIITLILALAVCMGAINETKGPILA 180  
|||||  
Db 128 LAKAVSPERFWNASGAFAFVTVQOGVAGALVAEIIITLILALAVCMGAINETKGPILA 187  
QY 181 PFSIGFATVDILAGGPGVGGCMNPARAFGPAVVANHNHFWIYWLGPGLLAGLLVGLLIR 240  
|||||  
Db 188 PFSIGFATVDILAGGPGVGGCMNPARAFGPAVVANHNHFWIYWLGPGLLAGLLVGLLIR 247  
QY 241 CFIDGKTRLLIKAR 255  
|||||  
Db 248 CFIDGKTRLLIKAR 262

## RESULT 3

US-10-396-943-1  
; Sequence 1, Application US/10396943  
; Publication No. US20030158085A1  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkuth, Wayne  
; APPLICANT: Klingner, Tod M.  
; TITLE OF INVENTION: AQTAPORIN-8 VARIANT  
; FILE REFERENCE: FC-0012 CIP  
; CURRENT APPLICATION NUMBER: US/10/396,943  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US/09/610,906  
; PRIOR FILING DATE: 2000-07-06  
; PRIOR APPLICATION NUMBER: 09/226,994  
; PRIOR FILING DATE: 1999-01-07  
; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: PERL Program  
; SEQ ID NO 1  
; LENGTH: 443  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20030158085A1 2774542CD1  
US-10-396-943-1

Query Match 100.0%; Score 1328; DB 12; Length 443;  
Best Local Similarity 100.0%; Pred. No. 2.1e-119;  
Matches 255; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCEPEFGNDKAREPSVGGGRWRSWYERFVQPCVLVLLGSALEFIFIGCLSVIENGTDGILL 60  
|||||  
Db 49 MCEPEFGNDKAREPSVGGGRWRSWYERFVQPCVLVLLGSALEFIFIGCLSVIENGTDGILL 108  
QY 61 QPALAHGLALGLVIATLGNISGGHFNPAVSLAAMLIGGLNLVMLPYWVSQLLGMLGAA 120  
|||||  
Db 109 QPALAHGLALGLVIATLGNISGGHFNPAVSLAAMLIGGLNLVMLPYWVSQLLGMLGAA 168  
QY 121 LAKAVSPERFWNASGAFAFVTVQOGVAGALVAEIIITLILALAVCMGAINETKGPILA 180  
|||||  
Db 169 LAKAVSPERFWNASGAFAFVTVQOGVAGALVAEIIITLILALAVCMGAINETKGPILA 228  
QY 181 PFSIGFATVDILAGGPGVGGCMNPARAFGPAVVANHNHFWIYWLGPGLLAGLLVGLLIR 240  
|||||  
Db 229 PFSIGFATVDILAGGPGVGGCMNPARAFGPAVVANHNHFWIYWLGPGLLAGLLVGLLIR 288  
QY 241 CFIDGKTRLLIKAR 255  
|||||  
Db 289 CFIDGKTRLLIKAR 303

## RESULT 4

US-10-023-896-55  
; Sequence 55, Application US/10023896  
; Publication No. US20030027776A1  
; GENERAL INFORMATION:  
; APPLICANT: Victor Roschke  
; TITLE OF INVENTION: 29 Human Cancer Associated Proteins  
; FILE REFERENCE: PA004P1  
; CURRENT APPLICATION NUMBER: US/10/023,896  
; CURRENT FILING DATE: 2001-12-21  
; PRIOR APPLICATION NUMBER: unassigned  
; PRIOR FILING DATE: 2001-12-21  
; PRIOR APPLICATION NUMBER: PCT/US00/23794  
; PRIOR FILING DATE: 2000-08-30  
; PRIOR APPLICATION NUMBER: 60/152,296  
; PRIOR FILING DATE: 1999-09-03  
; PRIOR APPLICATION NUMBER: 60/158,003  
; PRIOR FILING DATE: 1999-10-06  
; NUMBER OF SEQ ID NOS: 138  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 55  
; LENGTH: 261  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-023-896-55

Query Match 99.7%; Score 1324; DB 15; Length 261;  
Best Local Similarity 99.6%; Pred. No. 2.6e-119;  
Matches 254; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCEPEFGNDKAREPSVGGGRWRSWYERFVQPCVLVLLGSALEFIFIGCLSVIENGTDGILL 60  
|||||  
Db 7 MCEPEFGNDKAREPSVGGGRWRSWYERFVQPCVLVLLGSALEFIFIGCLSVIENGTDGILL 66  
QY 61 QPALAHGLALGLVIATLGNISGGHFNPAVSLAAMLIGGLNLVMLPYWVSQLLGMLGAA 120  
|||||  
Db 67 QPALAHGLALGLVIATLGNISGGHFNPAVSLAAMLIGGLNLVMLPYWVSQLLGMLGAA 126

[illegible]

```

RESULT 5
US-10-023-896-84
; Sequence 84, Application US/10023896
; Publication No. US2003002776A1
; GENERAL INFORMATION:
; APPLICANT: Victor Roschke
; TITLE OF INVENTION: 29 Human Cancer Associated Proteins
; FILE REFERENCE: PA004P1
; CURRENT APPLICATION NUMBER: US/10/023,896
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: unassigned
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: PCT/US00/23794
; PRIOR FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/152,296
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/158,003
; PRIOR FILING DATE: 1999-10-06
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 84
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-023-896-84

```

RESULT 6  
US-09-925-299-840  
; Sequence 840, Application US/09995299  
; Patent No. US20020055627A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: PA102  
; CURRENT APPLICATION NUMBER: US/09/925.299

```

? CURRENT FILING DATE: 2001-08-10
? PRIOR APPLICATION NUMBER: PCT/US00/05883
? PRIOR FILING DATE: 2000-03-08
? PRIOR APPLICATION NUMBER: 60/124,270
? PRIOR FILING DATE: 1999-03-12
? NUMBER OF SEQ ID NOS: 1556
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO 840
? LENGTH: 288
? TYPE: PRT
? ORGANISM: Homo sapiens
US-09-925-299-840

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```

RESULT 7
US-09-925-299-840
: Sequence 840, Application US/09925299
: Publication No. US20030040617A9
: GENERAL INFORMATION:
: APPLICANT: Rosen et al.
: TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
: FILE REFERENCE: PA102
: CURRENT APPLICATION NUMBER: US/09/925,299
: CURRENT FILING DATE: 2001-08-10
: PRIOR APPLICATION NUMBER: PCT/US00/05883
: PRIOR FILING DATE: 2000-03-08
: PRIOR APPLICATION NUMBER: 60/124,270
: PRIOR FILING DATE: 1999-03-12
: NUMBER OF SEQ ID NOS: 1556
: SOFTWARE: PatentIn ver. 2.0
: SEQ ID NO 840
: LENGTH: 288
: TYPE: PRT
: ORGANISM: Homo sapiens
US-09-925-299-840

```

	Query Match	99.7%	Score 1324;	DB 11;	Length 288;
	Best Local Similarity	99.6%;	Pred. No. 3e-119;		
	Matches 254;	Conservative	1;	Mismatches 0;	Indels 0;
	Gaps	0;			
QY	1	MCEPEFNDKAREPSPVGGNRWRYERFVOPCLVELLSALFIFIGCLSVIENGDTGILL	60		
DB	34	MCEPEFNDKAREPSPVGGNRWRYERFVOPCLVELLSALFIFIGCLSVIENGDTGILL	93		
QY	61	QPALAHGLALGLVIATPLNGISGHHFNPVAVSLAAMLTGGINLVMLLPVWSQLLGMGLAA	120		
DB	94	QPALAHGLALGLVIATPLNGISGHHFNPVAVSLAAMLTGGINLVMLLPVWSQLLGMGLAA	153		
OY	121	LAKAVSPEERFNWASGAAPVTVOSOGVAGALVAETILITTTIALAVCMGAINPKTKGPDA	180		



NAME: Becker, Cheryl L.  
 REGISTRATION NUMBER: 35,441  
 REFERENCE/DOCKET NUMBER: 6188.US.01  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 847/935-1729  
 TELEFAX: 847/938-2623  
 TELEX: <UNKNOWN>  
 INFORMATION FOR SEQ ID NO: 21:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 254 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: No. US20030013159a1e  
 SEQUENCE DESCRIPTION: SEQ ID NO: 21:  
 US-10-216-408-21

Query Match 99.3%; Score 1319; DB 15; Length 254;  
 Best Local Similarity 100.0%; Pred. No. 7.7e-119;  
 Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCEPEFGNDKAREPSVGGWRWYERFVQPCLVLLGSALEFIFIGCLSVIENGDTGLL 60  
 DB 1 MCEPEFGNDKAREPSVGGWRWYERFVQPCLVLLGSALEFIFIGCLSVIENGDTGLL 60

QY 61 QPALAHGLALGLVIATLGNISGHNPNVAVSLAAMLGGLNLMVLLPYWVSQLLGMLGAA 120  
 DB 61 QPALAHGLALGLVIATLGNISGHNPNVAVSLAAMLGGLNLMVLLPYWVSQLLGMLGAA 120

QY 121 LAKAVSPERFNNASGAFTVVOEGOVAGALVAEITLTLLALAVCMGAINETKGPGLA 180  
 DB 121 LAKAVSPERFNNASGAFTVVOEGOVAGALVAEITLTLLALAVCMGAINETKGPGLA 180

QY 181 PPSIGFAVTVDILAGGPVSGGCMPARAFGPAVVANWNEFHWIYWLGPILLAGLLVGLLIR 240  
 DB 181 PPSIGFAVTVDILAGGPVSGGCMPARAFGPAVVANWNEFHWIYWLGPILLAGLLVGLLIR 240

QY 241 CFISGDKTRLLIK 253  
 DB 241 CFISGDKTRLLIK 253

## RESULT 11

US-10-396-943-12  
 ; Sequence 12, Application US/10396943  
 ; Publication No. US20030158085A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Walker, Michael G.  
 ; APPLICANT: Volkmut, Wayne  
 ; APPLICANT: Klingner, Rod W.  
 ; TITLE OF INVENTION: AQUAPORIN-8 VARIANT  
 ; FILE REFERENCE: PC-0012 CIP  
 ; CURRENT APPLICATION NUMBER: US/10/396,943  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US/09/610,906  
 ; PRIOR FILING DATE: 2000-07-06  
 ; PRIOR APPLICATION NUMBER: 09/226,994  
 ; PRIOR FILING DATE: 1999-01-07  
 ; NUMBER OF SEQ ID NOS: 12  
 ; SOFTWARE: PERL Program  
 ; SEQ ID NO 12  
 ; LENGTH: 263  
 ; TYPE: PRT  
 ; ORGANISM: Rattus norvegicus  
 ; FEATURE:  
 ; NAME/KEY: misc.feature  
 ; OTHER INFORMATION: GenBank ID No. US20030158085A1: g2345968  
 ; PUBLICATION INFORMATION:  
 ; US-10-396-943-12

Query Match 76.7%; Score 1018.5; DB 12; Length 263;  
 Best Local Similarity 75.4%; Pred. No. 6.3e-90;  
 Matches 193; Conservative 26; Mismatches 36; Indels 1; Gaps 1;

QY 1 MCEPEFGNDKAREPSVGGWRWYERFVQPCLVLLGSALEFIFIGCLSVIENGDTGLL 59  
 DB 8 MCDMDLREIKGTENMADSYHGMSWYEQIQPCVVLLGSALEFIFIGCLSVIENSPNIGL 67

QY 60 QPALAHGLALGLVIATLGNISGHNPNVAVSLAAMLGGLNLMVLLPYWVSQLLGMLGAA 119  
 DB 68 QPALAHGLALGLVIATLGNISGHNPNVAVSLAAMLGGLNLMVLLPYWVSQLLGMLGAA 127

QY 120 ALKAVSPERFNNASGAFTVVOEGOVAGALVAEITLTLLALAVCMGAINETKGPGL 179  
 DB 128 ALKAVSPERFNNASGAFTVVOEGOVAGALVAEITLTLLALAVCMGAINETKGPGL 187

QY 180 APFSGFAVTVDILAGGPVSGGCMPARAFGPAVVANWNEFHWIYWLGPILLAGLLVGLLI 239  
 DB 188 APFSGFSVIVDILAGGIGSGACMPARAFGPAVVANWNEFHWIYWLGPILLAGLVGLLI 247

QY 240 RCFISGDKTRLLIKAR 255  
 DB 248 RLFIGDEKTRLLIKSR 263

## RESULT 12

US-10-097-340-12  
 ; Sequence 12, Application US/10097340  
 ; Publication No. US20030087250A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: John Monahan  
 ; APPLICANT: Manjula GANNAVAPU  
 ; APPLICANT: Sebastian HOERSCH  
 ; APPLICANT: Shubhangi KAMATKAR  
 ; APPLICANT: Steve G. KOVAIS  
 ; APPLICANT: Rachel E. MEYERS  
 ; APPLICANT: Michael MORRISEY  
 ; APPLICANT: Peter OLANDT  
 ; APPLICANT: Ami SEN  
 ; APPLICANT: Peter VEIBY  
 ; APPLICANT: Gordon B. MILLS  
 ; APPLICANT: Robert C. BAST, Jr.  
 ; APPLICANT: Karen LU  
 ; APPLICANT: Rosemarie SCHMANDT  
 ; APPLICANT: Xumei ZHAO  
 ; APPLICANT: Karen GLATT  
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,  
 ; FILE REFERENCE: MRI-030  
 ; CURRENT APPLICATION NUMBER: US/10/097,340  
 ; CURRENT FILING DATE: 2002-03-14  
 ; PRIOR APPLICATION NUMBER: 60/276,025  
 ; PRIOR FILING DATE: 2001-03-14  
 ; PRIOR APPLICATION NUMBER: 60/325,149  
 ; PRIOR FILING DATE: 2001-09-26  
 ; PRIOR APPLICATION NUMBER: 60/276,026  
 ; PRIOR FILING DATE: 2001-03-14  
 ; PRIOR APPLICATION NUMBER: 60/324,967  
 ; PRIOR FILING DATE: 2001/09/26  
 ; PRIOR APPLICATION NUMBER: 60/311,732  
 ; PRIOR FILING DATE: 2001-08-10  
 ; PRIOR APPLICATION NUMBER: 60/325,102  
 ; PRIOR FILING DATE: 2001-09-26  
 ; PRIOR APPLICATION NUMBER: 60/323,580  
 ; PRIOR FILING DATE: 2001-09-19  
 ; NUMBER OF SEQ ID NOS: 363  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 12  
 ; LENGTH: 265  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-10-097-340-12

Query Match 25.2%; Score 334; DB 15; Length 265;  
 Best Local Similarity 37.2%; Pred. No. 4.1e-24;  
 Matches 80; Conservative 44; Mismatches 83; Indels 8; Gaps 5;



```

QY 28 FVQPCVLLGSLAFIFIGCLSVIE--NGDTGLQPALAHGLALGLVIATLGNISGGHF 85
Db 10 FLKAVFAEFLATLIFVFFGLGSAKWPSPALPT-ILQIALAFGLAIGTILQAALGPVSGGHI 68
QY 86 NPVSLAAMLIAGLNLVMLLPYWSQLLGGMLGAALAKAVSPERFWNASGAFTVVOEQ 145
Db 69 NPATLALVGNQISLRAFFVYAAQLVGAIGAGILYGVAPLNARGNLAVNALNNNTQ 128
QY 146 GOVAGALVAEILITLALAVCMGAINETKGPAP-PSIGFAYTVDIILAGPVSQGMN 204
Db 129 GQ---AMVVELLIFQALCITFASTDSRTSPVGSFALSGISGLSVTLGLHLVGIYFTGCSMN 185
QY 205 PARAFGPVAVANHN--FHWIYWLGPILLAGLVGLL 238
Db 186 PARSGPVMNRPSAHWFVWGPVIGAVLAAIL 220

RESULT 13
US-10-171-311-16
; Sequence 16, Application US/10171311
; Publication No. US20030087270A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Chen, Yan
; APPLICANT: Zhao, Xumei
; APPLICANT: Monahan, John
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Glatt, Karen
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Hoersch, Sebastian
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
; TITLE OF INVENTION: OF CERVICAL CANCER
; FILE REFERENCE: MRI-035
; CURRENT APPLICATION NUMBER: US/10/171,311
; PRIOR FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: US 60/298,159
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/298,155
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/335,936
; PRIOR FILING DATE: 2001-11-14
; NUMBER OF SEQ ID NOS: 238
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 265
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-171-311-16

Query Match 25.2%; Score 334; DB 15; Length 265;
Best Local Similarity 37.2%; Pred. No. 4.1e-24;
Matches 80; Conservative 44; Mismatches 83; Indels 8; Gaps 5;

QY 28 FVQPCVLLGSLAFIFIGCLSVIE--NGDTGLQPALAHGLALGLVIATLGNISGGHF 85
Db 10 FLKAVFAEFLATLIFVFFGLGSAKWPSPALPT-ILQIALAFGLAIGTILQAALGPVSGGHI 68
QY 86 NPVSLAAMLIAGLNLVMLLPYWSQLLGGMLGAALAKAVSPERFWNASGAFTVVOEQ 145
Db 69 NPATLALVGNQISLRAFFVYAAQLVGAIGAGILYGVAPLNARGNLAVNALNNNTQ 128
QY 146 GOVAGALVAEILITLALAVCMGAINETKGPAP-PSIGFAYTVDIILAGPVSQGMN 204
Db 129 GQ---AMVVELLIFQALCITFASTDSRTSPVGSFALSGISGLSVTLGLHLVGIYFTGCSMN 185
QY 205 PARAFGPVAVANHN--FHWIYWLGPILLAGLVGLL 238
Db 186 PARSGPVMNRPSAHWFVWGPVIGAVLAAIL 220

RESULT 14

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US-10-023-896-107
; Sequence 107, Application US/10023896
; Publication No. US2003002776A1
; GENERAL INFORMATION:
; APPLICANT: Victor Roschke
; TITLE OF INVENTION: 29 Human Cancer Associated Proteins
; FILE REFERENCE: PA004PI
; CURRENT APPLICATION NUMBER: US/10/023,896
; CURRENT FILING DATE: 2001-12-21
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: unassigned
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: PCT/US00/23794
; PRIOR FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/152,296
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/158,003
; PRIOR FILING DATE: 1999-10-06
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 107
; LENGTH: 46
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-023-896-107

Query Match 17.8%; Score 236; DB 15; Length 46;
Best Local Similarity 100.0%; Pred. No. 1.2e-15;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 106 PYWVQLLGGMLGAALAKAVSPERFWNASGAFTVVOEQGVAGA 151
Db 1 PYWVQLLGGMLGAALAKAVSPERFWNASGAFTVVOEQGVAGA 46

RESULT 15
US-10-177-293-10
; Sequence 10, Application US/10177293
; Publication No. US20030124128A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Glatt, Karen
; APPLICANT: Zhao, Xumei
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Mertens, Maureen
; APPLICANT: Myer, Vic
; APPLICANT: Wang, Youzhen
; APPLICANT: Xu, Yongyao
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Monahan, John
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Bast Jr., Robert C.
; APPLICANT: Hortobagyi, Gabriel N.
; APPLICANT: Pusztai, Lajos
; APPLICANT: Meric, Funda
; APPLICANT: Sahin, Aysecul
; APPLICANT: Mills, Gordon B.
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT
; FILE REFERENCE: MRI-038
; CURRENT APPLICATION NUMBER: US/10/177,293
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: US 60/299,887
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/301,572
; PRIOR FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: US 60/306,501
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: US 60/325,002
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US 60/362,585
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/xxx,xxx

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; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 506
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-177-293-10

Query Match      16.5%; Score 218.5; DB 15; Length 292;
Best Local similarity 29.4%; Pred. No. 6e-13;
Matches 75; Conservative 32; Mismatches 105; Indels 43; Gaps 10;

QY      27 RFVQPCIVELLSALFIFIGCLS-----VIENGDTGILQPALAHGLALGLVITATLGNISG 82
Db      20 RLLRQALAECLGTLILVMFGGCSVAQVLSRGTHGGFLTINLAFGFAVTILGILIAGOVSG 79

QY      83 GHENPAVSLAAMLIGGLNLYMLLPYVWSQLLGGMLGAALAKAVSPERFW-----132
Db      80 AHLNPAVTFAMCFIAREPWIKLPYITLACTLGAFLGAGIVFGLY-YDAIWHFADNOLFVS 138

QY      133 --NAGGAFTVVOE-QGOVAGALVAEIIITLIALAVCMGAINETKGP----LAPFSIG 185
Db      139 GPNGTAGIFATYPSCGLDMINGFDQFIGTA--SLIVCVLAIVDPYNNPVPRGLEAFTVG 196

QY      186 FAVTVDILAGPVSGGCMNPARAPGPV-----VANHNHFWIYWLGPLL-- 230
Db      197 LVVLVIGTSMGNSGYAVNPARDGPRLEFTALAGWSAVFTGQHW--WVPIVSPPLGS 254

QY      231 -AGLLY-GLLIRCFI 243
Db      255 IAGVVIQLMIGCHL 269
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Search completed: October 15, 2003, 18:19:01  
Job time : 50 secs

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: October 15, 2003, 18:12:27 ; Search time 60 Seconds  
(without alignments)  
1875.878 Million cell updates/sec

Title: US-09-864-711-15

Perfect score: 1328

Sequence: 1 MCEPFGNDKAREPSVGGRW.....GLIRCFIGDKTRILIKAR 255

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-Q=/cgn2.1/USPTO.spool/US09864711/runat 15102003 112107.17056/app query.fasta 1.391  
-DB=Issued Patents.NA -QFMT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0  
-LOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DLOCALIGN=200 -THR.SCORE=pct -THR.MAX=100 -THR.MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
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-DEV.TIMEOUT=120 -WARN.TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

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2: /cgn2.6/ptodata/2/ina/5B.COMB.seq.\*  
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4: /cgn2.6/ptodata/2/ina/6B.COMB.seq.\*  
5: /cgn2.6/ptodata/2/ina/PCBUS.COMB.seq.\*  
6: /cgn2.6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1328	100.0	1312	4	US-09-610-906-5
2	1328	100.0	1354	4	US-09-610-906-2
3	463	34.9	620	4	US-09-610-906-7
4	379	28.5	1015	4	US-09-372-422A-31
5	372.5	28.0	938	3	US-08-654-025-1
6	372.5	28.0	938	3	US-08-654-025-3
7	368.5	27.7	1081	4	US-09-372-422A-33
8	366	27.6	279	4	US-09-610-906-8
9	362	27.3	1158	4	US-09-372-422A-21
10	356.5	26.8	1153	4	US-09-372-448A-5
11	345	26.0	1193	4	US-09-372-422A-23
12	340.5	25.6	1100	4	US-09-372-422A-47

13	323	24.3	1442	1	US-08-468-763-18	Sequence 18, Appl
14	323	24.3	1442	2	US-08-393-996A-18	Sequence 18, Appl
15	320	24.1	1408	1	US-08-447-554-3	Sequence 3, Appl
16	320	24.1	1408	1	US-08-448-160-3	Sequence 3, Appl
17	315.5	23.8	3426	1	US-08-234-939-1	Sequence 1, Appl
18	315.5	23.8	3426	1	US-08-558-865-1	Sequence 1, Appl
19	315.5	23.8	3426	3	US-08-654-025-6	Sequence 6, Appl
20	312	23.5	1302	4	US-09-372-422A-27	Sequence 27, Appl
21	305	23.0	1176	4	US-09-372-422A-25	Sequence 25, Appl
22	296.5	22.3	325	4	US-09-610-906-10	Sequence 10, Appl
23	282.5	21.3	1485	4	US-09-372-422A-39	Sequence 39, Appl
24	277.5	20.9	1087	4	US-09-372-422A-29	Sequence 29, Appl
25	271	20.4	1445	4	US-09-372-422A-1	Sequence 1, Appl
26	271	20.4	1445	4	US-09-372-448A-1	Sequence 1, Appl
27	270	20.3	1384	4	US-09-372-422A-17	Sequence 17, Appl
28	268	20.2	1204	4	US-09-372-422A-3	Sequence 3, Appl
29	267.5	20.1	1375	4	US-09-372-422A-37	Sequence 37, Appl
30	267	20.1	1333	4	US-09-372-422A-9	Sequence 9, Appl
31	265	20.0	1304	4	US-09-372-422A-15	Sequence 15, Appl
32	259.5	19.5	1217	4	US-09-372-422A-11	Sequence 11, Appl
33	258.5	19.5	1340	1	US-08-468-763-16	Sequence 16, Appl
34	258.5	19.5	1340	2	US-08-393-996A-16	Sequence 16, Appl
35	258	19.4	1242	4	US-09-372-448A-3	Sequence 3, Appl
36	257.5	19.4	939	4	US-09-252-991A-15282	Sequence 15282, A
37	257.5	19.4	1206	4	US-09-372-422A-13	Sequence 13, Appl
38	257.5	19.4	1629	4	US-09-252-991A-15397	Sequence 15397, A
39	257.5	19.4	2112	4	US-09-252-991A-15383	Sequence 15383, A
40	254	19.1	1454	4	US-09-372-422A-19	Sequence 19, Appl
41	250.5	18.9	1116	4	US-09-372-422A-41	Sequence 41, Appl
42	249	18.8	699	4	US-09-328-352-2119	Sequence 2119, Ap
43	249	18.8	2530	4	US-08-961-527-226	Sequence 226, App
44	247.5	18.6	1830121	4	US-09-557-884-1	Sequence 1, Appl
45	247.5	18.6	1830121	4	US-09-643-990A-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1  
US-09-610-906-5  
; Sequence 5, Application US/09610906  
; Patent No. 6566066  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkumuth, Wayne  
; APPLICANT: Klinger, Tod M.  
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT  
; FILE REFERENCE: PC-0012 CIP  
; CURRENT APPLICATION NUMBER: US/09/610,906  
; CURRENT FILING DATE: 2000-07-06  
; PRIOR APPLICATION NUMBER: 09/226,994  
; PRIOR FILING DATE: 1999-01-07  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PERL Program  
; SEQ ID NO 5  
; LENGTH: 1312  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. 6566066 1804734CB1  
; PUBLICATION INFORMATION:  
US-09-610-906-5

Alignment Scores:  
Pred. No.: 1.35e-138 Length: 1312  
Score: 1328.00 Matches: 255  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 4 Gaps: 0  
US-09-864-711-15 (1-255) x US-09-610-906-5 (1-1312)

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QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyArgTrp 20
Db ATGTGTGAGCTGAATTTGGCAATGACAAAGGCCAGGAGCGAGCGTGGGTGGCAGGTGG 170
QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGluLeuLeuGlySerAla 40
Db CGAGTGTCTGCTGAGAACCGTTTGGCAGCCATGCTGGTTCGAACCTGGTGGGCTCTGCT 230
QY 41 LeuPheIlePheIleGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60
Db CTCTTCATCTCATCGGGTGCCTGCTGGTTCATGAGATGGAGGACACGCTGGCTGCTG 290
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80
Db CAGCCGGCCCTGGCCACGGGCTGGCTTTGGGGCTGCTGATGTCACGCTGGGGAATATC 350
QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAsn 100
Db AGTGTGGACACTTCAACCTGCGGTGCTCCCTGGCAGCATGCTGATCGGAGGCTTCAAC 410
QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAla 120
Db CTGGTGATGCTCTCCCTGCTACTGCGGTCTCACAGCTGCTCGGGGGATGCTCGGGGCTGCC 470
QY 121 LeuAlaLysAlaValSerProGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140
Db TTGGCCAGCGGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 530
QY 141 ThrValGlnGlnGlnGlnValAlaGlyAlaLeuValAlaGluIleLeuLeuThr 160
Db ACAGTCCAGAGCAGGGGAGGTGGCAGGGGGCTGGTGGCAGAGATCATCTTCGACGAGG 590
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrLysGlyProLeuAla 180
Db CTGCTGGCCCTGGCTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 650
QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyProValSerGly 200
Db CGCTTCTCATCGGCTTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 710
QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValAlaAlaAsnHisTrpAsnPhe 220
Db GGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 770
QY 221 HisTrpIleTyrTrpLeuGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeuLeuArg 240
Db CACTGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 830
QY 241 CysPheIleGlyAspGlyLysThrArgLeuIleLeuLysAlaArg 255
Db TGTCTTCAATGGAGATGGAGAGACCCGCTCATCTTGAAGGCTCGG 875
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## RESULT 2

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US-09-610-906-2
; Sequence 2, Application US/09610906
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; Patent No. 6566066
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```
; GENERAL INFORMATION:
```

```
; APPLICANT: Walker, Michael G.
```

```
; APPLICANT: Volkman, Wayne
```

```
; APPLICANT: Klingner, Tod M.
```

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; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
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; FILE REFERENCE: PC-0012 CIP
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; CURRENT APPLICATION NUMBER: US/09/610,906
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; CURRENT FILING DATE: 2000-07-06
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; PRIOR APPLICATION NUMBER: 09/226,994
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; PRIOR FILING DATE: 1999-01-07
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; NUMBER OF SEQ ID NOS: 12
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; SOFTWARE: PERL Program
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; SEQ ID NO 2
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; LENGTH: 1354
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; TYPE: DNA
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; ORGANISM: Homo sapiens
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; FEATURE:
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; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No. 6566066 2774542CB1
; PUBLICATION INFORMATION:
US-09-610-906-2
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## Alignment Scores:

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Pred. No.: 1.41e-138 Length: 1354
Score: 1328.00 Matches: 255
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Db: 4 Gaps: 0
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US-09-864-711-15 (1-255) x US-09-610-906-2 (1-1354)
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QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGluLeuLeuGlySerAla 40
Db 208 CGAGTGTCTGCTGAGAACCGTTTGGCAGCCATGCTGGTTCGAACCTGGTGGGCTCTGCT 267
QY 41 LeuPheIlePheIleGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60
Db 268 CTCTTCATCTCATCGGGTGCCTGCTGGTTCATGAGATGGGACGACACTGGGCTGCTG 327
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80
Db 328 CAGCGCGCCCTGGCCACGGCTGGCTTGGGGCTGCTGATGTCGACGCTGGGGGAAATTC 387
QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAsn 100
Db 388 AGTGTGGACACTTCAACCTGCGGTGCTCCCTGGCAGCATGCTGATCGGAGGCTCAAC 447
QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAla 120
Db 448 CTGGTGTGATGCTCTCCCTGCTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCGGGGCTGCC 507
QY 121 LeuAlaLysAlaValSerProGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140
Db 508 TTGGCCAAAGCGGTGAGTCTCTGAGGAGAGGTCTTGAATGCTATCTGGGGCGGCTTGTG 567
QY 141 ThrValGlnGlnGlnGlnValAlaGlyAlaLeuValAlaGluIleLeuLeuThr 160
Db 568 ACAGTCCAGAGCAGGGGAGGTGGCAGGGGGCTGGTGGCAGAGATCATCTTCCTGACGAGG 627
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrLysGlyProLeuAla 180
Db 628 CTGCTGGCCCTGGCTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 687
QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGly 200
Db 688 CCGTTCCTCATCGGCTTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 747
QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValAlaAlaAsnHisTrpAsnPhe 220
Db 748 GGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 807
QY 221 HisTrpIleTyrTrpLeuGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeuLeuArg 240
Db 808 CACTGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 867
QY 241 CysPheIleGlyAspGlyLysThrArgLeuIleLeuLysAlaArg 255
Db 868 TGTCTTCAATGGAGATGGAGAGACCCGCTCATCTTGAAGGCTCGG 912
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## RESULT 3

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US-09-610-906-7
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; Sequence 7, Application US/09610906
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; Patent No. 6566066
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; GENERAL INFORMATION:
```

```
; APPLICANT: Walker, Michael G.
```



```

/ APPLICANT: Opperman, Charles H.
/ APPLICANT: Acedo, Gregoria N.
/ APPLICANT: Song, Wen
/ TITLE OF INVENTION: Nematode Resistant Transgenic Plants
/ NUMBER OF SEQUENCES: 7
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park and
/ ADDRESSEE: Gibson
/ STREET: Post Office Drawer 34009
/ CITY: Charlotte
/ STATE: No. 6008436th Carolina
/ COUNTRY: U.S.A.
/ ZIP: 28234
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent in Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/654,025
/ FILING DATE:
/ CLASSIFICATION: 800
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/08/332,658
/ FILING DATE:
/ APPLICATION NUMBER: US/08/007,998
/ FILING DATE:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Sibley, Kenneth D.
/ REGISTRATION NUMBER: 31,665
/ REFERENCE/DOCKET NUMBER: 5051-201
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 919-881-3140
/ TELEFAX: 919-881-3175
/ TELEX: 575102
/ INFORMATION FOR SEQ ID NO: 1:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 938 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 47..799
/ FEATURE:
/ NAME/KEY: mat_peptide
/ LOCATION: 47..796
/ US-08-654-025-1
/
Alignment Scores:
Pred, No.: 2.45e-32 Length: 938
Score: 372.50 Matches: 95
Percent Similarity: 52.85% Conservative: 35
Best Local Similarity: 38.62% Mismatches: 85
Query Match: 28.05% Indels: 31
DB: Gaps: 7
/
US-09-864-711-15 (1-255) x US-08-654-025-1 (1-938)
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QY 15 ServAlGlyArgtrpArgVaiSerTrpTyGluArgPheValGlnProCysLeuVal 34
/ |||:||||| :||| :||| :||| :|||
Db 68 AGCATGTGTGACTCTTTAGTTGGATCATGGAAGGCGCTATGTA-----GCT 115
/
QY 35 GlnLeuLeuGlySerAlaLeuPheIlePheIleGlyCysLeuSerValIleGluAsnGly 54
/ ||| :||| :||| :||| :||| :|||
Db 116 GAGTTTATTGTACTCTTCTCTTTGTTGTTGCTGGGCTGGTCTGCTATAGCTTATAAT 175
/
QY 55 ThrAspThr-----GlyIleuLeuGlnProAlaLeuAlaHis 66
/ ||| :||| :||| :||| :||| :|||
Db 176 AAATTGACGACGAGATGCACTCTTGATCCAGCTGGTGTAGTAGCACTGTGGCTCAT 235
/
QY 67 GlyLeuAlaLeuGlyLeuValIleAlaThrIleuGlyAsnIleSerGlyIleGlyHisPheAsn 86

```

```

; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 5051-201
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-881-3140
; TELEFAX: 919-881-3175
; TELEX: 575102
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 938 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ANTI-SENSE: YES
; US-08-654-025-3

Alignment Scores:
Pred. No.: 2,45e-32 Length: 938
Score: 372.50 Matches: 95
Percent Similarity: 52.85% Conservative: 35
Best Local Similarity: 38.62% Mismatches: 85
Query Match: 28.05% Indels: 31
DB: 3 Gaps: 7

US-09-864-711-15 (1-255) x US-08-654-025-3 (1-938)
QY 15 SerValGlyGlyArgTrpArgValSerTrpTyGluArgPheValGlnProCysLeuVal 34
Db 871 AGCATGTGTGACTCTTTTAGTGTGGATTCGAAGCCCATGTA-----GCT 824
QY 35 GluLeuLeuGlySerAlaLeuPheIlePheIleGlyCysLeuSerValIleGluAsnGly 54
Db 823 GAGTTATATGCTACTCTCTCTTGTGTGTGGGGTGGCTCTGCTATAGCTTATAAT 764
QY 55 ThrAspThr-----GlyLeuLeuGlnProAlaLeuAlaHis 66
Db 763 AAATGACACGACGATCAGCTCTGTGATCCAGCTGGTCTAGTAGCAGTAGCTGTGGCTAT 704
QY 67 GlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIleSerGlyGlyHisPheAsn 86
Db 703 GCATTTGCATGTTTCTTGGGTTCCTACACGACCAATATTTTCAGTGGCCATTTCAT 644
QY 87 ProAlaValSerLeuAlaAlaMetIleuGlyLeuAsnLeuValMetLeuLeuPro 106
Db 643 CCAGCTGTCACTTTGGGATGGCTGTGGTGGAAACATCACCATTCTTGACTGGCTCTTC 584
QY 107 TyrTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAlaLeuAlaValSer 126
Db 583 TACTGGATGCCAAATGGCTTGGCTCCACAGTGTGCTGCTCTCTCAAAATAGCTTACT 524
QY 127 ProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheValThrValGlnGluGlnGly 146
Db 523 -----AATGGATTGGCT-----GTTCCAACCCATGGA 497
QY 147 GlnValAlaGly-----AlaLeuValAlaGluIleIleIleThrThrLeu 161
Db 496 GTTGCTGTGGGTCAATGGATTACAGGAGTGGTATGAGATATATCAATCACTTTGCA 437
QY 162 LeuAlaLeuAlaValCysMetGlyAlaIleAsnGlnLys-----ThrLysGlyProLeu 179
Db 436 CTGGTCTACACTGTTTATCAACACACACACAGCACACCTAAAGGGCTCACITGGAAOCAT 377
QY 180 AlaProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSer 199
Db 376 GCACCCATTCGATATGGGTTCATTTGTGGGCCCAACATTTTGGCAGCTGGTCCATTCCAG 317
QY 200 GlyGlyCysMetAsnProAlaArgAlaPheGlyProAlaValAlaAlaAsnHisTrpAsn 219
Db 316 GTTGGGTCAATGAACCCAGCTCGATCATTTGGGCCACGCTGTGGTTCGAGGAGACTTTCT 257
QY 220 PheHisTrpIleTyrTrpLeuGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeuLeu 239

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Db 472 GTGCTGGAGATGCTCATGACCTTCGGCTTCGTGTACAGGTGTACGCCAGCGCTGGGAC 531
QY 173 GlnLys-----ThrLysGlyProLeuAlaProPheSerIleGlyPheAlaValThrVal 190
Db 532 CCCAAGAGGGGACCTTCGGCGTCATCGGCCATCGCCATCGCGCTTCATCGTCGGCGCC 591
QY 191 AspIleLeuAlaGlyProValSerGlyGlyCysMetAsnProAlaArgAlaPheGly 210
Db 592 AACATCTGGCGGGGGCGCTTCGACGGCGCTCCATGAACCCCGCTTCCTTCGGC 651
QY 211 ProAlaValAlaAsnHisTrpAsnPheHisTrpIleTrpLeuGlyProLeuVal 230
Db 652 CCGCGCGTGTACCGCGCTCGGAGAACCACTGGGTGTACTGGTTCGGGCCCA---CTC 708
QY 231 AlaGlyLeuValGlyLeuLeuLeuArg-----CysPheIleGly 244
Db 709 CGGGGCGCGCCATCGCGGGCGCTGCTAGGACATCATCTTCATCGGG 756

RESULT 8
US-09-610-906-8
; Sequence 8, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmut, Wayne
; APPLICANT: Klingner, Tod M.
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/09/610,906
; CURRENT FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 8
; LENGTH: 279
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID NO. 6566066 701624411H1
; PUBLIC INFORMATION:
US-09-610-906-8

Alignment Scores:
Pred. No.: 2,29e-32 Length: 279
Score: 366.00 Matches: 70
Percent Similarity: 84.78% Conservative: 8
Best Local Similarity: 76.09% Mismatches: 14
Query Match: 27.56% Indels: 0
DB: Gaps: 4

US-09-864-711-15 (1-255) x US-09-610-906-8 (1-279)
QY 128 GlnGluArgPheTrpAsnAlaSerGlyAlaAlaPheValThrValGlnGlnGlyGln 147
Db 4 GAGAAAGGTTCTGGAATGCTGTGGGACAGCTTCGATCCAGGACGAGGACG 63
QY 148 ValAlaGlyAlaLeuValAlaGluIleLeuThrThrLeuLeuAlaLeuAlaValCys 167
Db 64 GTGGCAGAACCTCGGGGTAGACATGCTATACGATCTGTTGGTATGGGTGTGT 123
QY 168 MetGlyAlaIleAsnGluLysThrLysGlyProLeuAlaProPheSerIleGlyPheAla 187
Db 124 ATGGGTGCGCTCAATGAGAGACCATGGGTGCCCTTCAGCCCATCTCCATTTGTTCT 183
QY 188 ValThrValAspIleLeuAlaGlyProValSerGlyGlyCysMetAsnProAlaArg 207
Db 184 GTCAATTGTGATATCTCGGCAAGTGTGGGATCTCTGGAGCTCATGACCATCCCTGCT 243
QY 208 AlaPheGlyProAlaValAlaAlaAsnHisTrpAsn 219

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Db 244 GCCTTTGGACCTGCTGTGTATGGTGTGCTACTGGGAC 279

RESULT 9
US-09-372-422A-21
; Sequence 21, Application US/09372422A
; Patent No. 6313375
; GENERAL INFORMATION:
; APPLICANT: Rudolf Jung
; APPLICANT: Francois Barrieu
; TITLE OF INVENTION: Maize Aquaporins and Uses Thereof
; FILE REFERENCE: 0919
; CURRENT APPLICATION NUMBER: US/09/372,422A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: US 60/098,692
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 1158
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (250)...(997)
US-09-372-422A-21

Alignment Scores:
Pred. No.: 4.9e-31 Length: 1158
Score: 362.00 Matches: 94
Percent Similarity: 53.25% Conservative: 37
Best Local Similarity: 38.21% Mismatches: 83
Query Match: 27.26% Indels: 32
DB: Gaps: 8

US-09-864-711-15 (1-255) x US-09-372-422A-21 (1-1158)
QY 15 SerValGlyGlyArgTrpArgValSerTrpTyrGluArgPheValGlnProCysLeuVal 34
Db 271 AGCGTCGGCGACTCTTCAGCGCCACCTCCATCAAGGCGCTACGTG-----GCC 318
QY 35 GlnLeuLeuGlySerAlaLeuPheIleGlyCysLeuSerValIleGluAsnGly 54
Db 319 GAGTTCATCGCCACCCCTCTTCGTCGTCGCGGCGGTCTCGGCGGTCCGCCATCCCTACGG 378
QY 55 -----ThrAspThrGlyLeuLeuGlnPro-----AlaLeuAlaHis 66
Db 379 CAACTGACGAATGGCGCGCTGGACCGCGGCGCTGGTGGCGATCGCATCGCGAC 438
QY 67 GlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIleSerGlyGlyHisPheAsn 86
Db 439 GCGTGGCGCTGTTCGTGGCGGTCTTCGTCGCGGCGGACATCTCGGCGCGCCACTGAC 498
QY 87 ProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAsnLeuValMetLeuLeuPro 106
Db 499 CCGCGCGTGAAGTTCGGGCTGGCGCGCCACATCACCATCCTGACGGGCTCTTC 558
QY 107 TyrTrpValSerGlnLeuLeuGlyMetLeuGlyAlaAlaLeuAlaValSer 126
Db 559 TACTGGTGGCGCCAGCTGCTGGCGCCACCGGTGGGTGCTCTCTCGGCTGCTGCTACC 618
QY 127 ProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheValThrValGlnGlnGly 146
Db 619 -----CACGGCAGGCGCATCCCGACG-----CAC 642
QY 147 GlnValAlaGly-----AlaLeuValAlaGluIleLeuLeuThrLeu 161
Db 643 GCGCTCGCGGCATCAGCAGCTGGAAGGCGTGTGTGAGGTCTCATCACCCTCGCG 702
QY 162 LeuAlaLeuAlaValCysMetGlyAlaIleAsnGlnLys-----ThrLysGlyProLeu 179
Db 703 CTCGTCTACCGGTGTAGCCACCGCGCGGACCAAGAGGCGCTCGCTCGGCGACCATC 762
QY 180 AlaProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyProValSer 199

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Db 210 CTTGGGCAACTGACGAATGGCGCGCTGACCGCTGCGGAGTGGTGCGATCGCGT 269  
 QY 64 uAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIleSerGlyGlyHi 84  
 Db 270 GGGCAGCGGCTGGCGCTTCGTGGGCTCTCGTGCGCGGAGAACCTCCGGCGGCCA 329  
 QY 84 sPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAsnLeuValMetIe 104  
 Db 330 CCTGACCCCGCGTGCCTGCGCGCTGGCGGCGCACATCACCCTCCACCGG 389  
 QY 104 uLeuProTyrTrpValSerGlnLeuGlyLeuMetLeuGlyAlaAlaLeuAlaLysAl 124  
 Db 390 CCTCTTCTACTGGTGGCGGAGCTGCTGGCGCGCTCCGCGTGGCGTCTCTCAGGTT 449  
 QY 124 aValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheValThrValcInG1 144  
 Db 450 CTGACCCCGCAGGCGCATC---CGACCCACGCGCTCCGGCGGCGCACACGAGCT 506  
 QY 144 uGlnGlyGlnValAlaGlyAlaLeuValAlaGluIleLeuThrThrLeuAlaLe 164  
 Db 507 GGAGGCG-----GTGCTGTTCGAGATCGTCATCACCCTTCGCGCTCGTCTA 551  
 QY 164 uAlaValCysMetGlyAlaIleAsnGluLys-----ThrLysGlyProLeuAlaProPh 182  
 Db 552 CACCGTGTACGCCACCGCGCGGACCCCGAGAGGCTCCCTCGGCGACCTCCGCGCAT 611  
 QY 182 eSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGlyGlyCy 202  
 Db 612 CGCATCGGCTTCATCGTCGCGCCACACATCTCCGCGGCGCTTCAGCGCGGCTC 671  
 QY 202 sMetAsnProAlaArgAlaPheGlyProAlaValAlaAlaAsnHisTrpAsnPheHisTr 222  
 Db 672 CATGAACCCCGCGCTCTTCGCGCGCGCGCTCCGCGCGGCGGCTTCGCGCGGCACTG 731  
 QY 222 pIleTyrTrpLeuGlyProLeuAlaGlyLeuValGlyLeuLeuLeuLeuLeuLeuLeu 741  
 Db 732 GGTCTACTGGTGGCGCGCGCTCATCGCGCGGAGTCTGCTGCTCTCTACGCGAGCT 791  
 QY 241 sPheIleGly 244  
 Db 792 CTTTCATCGGC 801

## RESULT 12

US-09-372-422A-47  
 ; Sequence 47, Application US/09372422A  
 ; Patent No. 6313375  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rudolf Jung  
 ; TITLE OF INVENTION: Maize Aquaporins and Uses Thereof  
 ; FILE REFERENCE: 0919  
 ; CURRENT APPLICATION NUMBER: US/09/372,422A  
 ; CURRENT FILING DATE: 1999-08-11  
 ; PRIOR APPLICATION NUMBER: US 60/098,692  
 ; PRIOR FILING DATE: 1998-08-31  
 ; NUMBER OF SEQ ID NOS: 49  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 47  
 ; LENGTH: 1100  
 ; TYPE: DNA  
 ; ORGANISM: Zea mays  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (94)...(835)  
 US-09-372-422A-47

## Alignment Scores:

Pred. No.:	1,13e-28	Length:	1100
Score:	340.50	Matches:	93
Percent Similarity:	52.57%	Conservative:	40
Best Local Similarity:	36.76%	Mismatches:	91
Query Match:	25.64%	Indels:	31
DB:	4	Gaps:	7

US-09-864-711-15 (1-255) x US-09-372-422A-47 (1-1100)

QY 7 GlyAsnAspLysAlaArgGluProSerValGlyGly-----ArgTrpArgValSerTrp 24  
 Db 50 GCGCGAATACCGTCAGAGGAGTGGGAGGGGGGAAAAAGATGGTGAAGTCCCAT 109  
 QY 25 TyrGluArgPheVal-----GlnProCysLeuValLeuLeu 36  
 Db 110 TTGGAGCTTTCGCGACTTTTGGCGCGCGTCTGCTCAGGCGCTAT-GTGGCGAGTTC 168  
 QY 37 LeuGlySerAlaLeuPheIleGlyCysLeuSerValIleGluAsnGly-----54  
 Db 169 ATTGCCAGCTGCTCTCTGTGTTCGCGCGCTCGGGTCCGCCATTGCTACTGCAATTG 228  
 QY 55 ThrAspThrGlyLeuLeuGlnPro-----AlaLeuAlaHisGlyLeu 68  
 Db 229 AGAAGGCGCGCTCTGGACCCCGCGCGCTGGTGGCCATCGCCATCGCCATCGCGTTC 288  
 QY 69 AlaLeuGlyLeuValIleAlaThrLeuGlyAsnIleSerGlyGlyHisPheAsnProAla 88  
 Db 289 GCGCTCTTCGTCGCGCTCTCCATGTGGCGGCAACATCTCCGCGGCGCACCTGAACCGGCC 348  
 QY 89 ValSerLeuAlaAlaMetLeuIleGlyGlyLeu-AsnLeuValMetLeuLeuProTyrTr 108  
 Db 349 GTACCTTC---GGCTTCGCGCTGGCGGCGACATCCTCCTCAGCGATCCTCTACTG 405  
 QY 108 pValSerGlnLeuLeuGlyMetLeuGlyAlaAlaLeuAlaLysAlaValSerProGl 128  
 Db 406 GGTTCGCCAGCTTCGCGCTTCGCGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 464  
 QY 128 uGluArgPheTrpAsnAlaSerGlyAlaAlaPheValThrValGlnGluGlnGlyGlnVa 148  
 Db 465 GACAGGCTATCCCGACGCGCTCCGCGATCAGCGATCGAG-510  
 QY 148 lAlaGlyAlaLeuValAlaGluIleLeuThrThrLeuLeuAlaLeuAlaValCysMe 168  
 Db 511 -----GGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 563  
 QY 168 tGlyAlaIleAsnGluLys-----ThrLysGlyProLeuAlaProPheSerIleGlyPh 186  
 Db 564 CACCGCGCGCGCGCGGAGGCTCCCTGGCGCACCATCGCGCGCGCGCGCGCGCGCGCTT 623  
 QY 186 eAlaValThrValAspIleLeuAlaGlyProValSerGlyCysMetAsnProAl 206  
 Db 624 CATCGTCGCGCGCCACATCTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 683  
 QY 206 aArgAlaPheGlyProAlaValAlaAlaAsnHisTrpAsnPheHisTrpIleTyrTrpLe 226  
 Db 684 CCGCTCTTCGCGCGCGCGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 743  
 QY 226 uGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeu 238  
 Db 744 CCGCGCGCGCTGTCGCGCGGTGCGCTGGCGGCGTCTGTC 780

## RESULT 13

US-08-468-763-18  
 ; Sequence 18, Application US/08468763  
 ; Patent No. 5741671  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Agre, Peter C.  
 ; TITLE OF INVENTION: Isolation, Cloning and Expression of  
 ; TITLE OF INVENTION: Transmembrane Water Channel Proteins  
 ; NUMBER OF SEQUENCES: 19  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Banner & Allegretti  
 ; STREET: 1001 G Street, N.W.  
 ; CITY: Washington, D.C.  
 ; STATE: D.C.  
 ; COUNTRY: US  
 ; ZIP: 20001  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk



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; SEQUENCE CHARACTERISTICS:
; LENGTH: 1408 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 85..897
US-08-447-554-3

Alignment Scores:
Pred. No.: 3.1e-26 Length: 1408
Score: 320.00 Matches: 80
Percent Similarity: 54.66% Conservative: 49
Best Local Similarity: 33.90% Mismatches: 91
Query Match: 24.10% Indels: 16
DB: 1 Gaps: 7

US-09-864-711-15 (1-255) x US-08-447-554-3 (1-1408)
QY 13 GluProSerValGlyArgTTPArgValSerTyrGlu-----Argphe 28
DB 52 GACCCCTGGCCAGCCGACAGTGGAGCAGATGGGAACTCAGATCCATAGCCTTC 111
QY 29 ValGlnProCysLeuValGluLeuLeuGlySerAlaLeuPheIlePheIleCysLeu 48
DB 112 TCCGAGCAGAGTGGCTGAGTTCCTTGGCCAGGCTCTCTTTCTCTTTGGCCTTGGC 171
QY 49 SerValIleGlu---AsnGlyThrAspThrGlyLeuLeuGlnProAlaLeuAlaHisGly 67
DB 172 TAGCCCTCCAGTGGGCGAGCTCCCAACCTGTGTGCTCCAGATCCGCTGGCTTGGT 231
QY 68 LeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIleSerGlyGlyHisPheAsnPro 87
DB 232 CTGGGATCGGCATCTGTGTAGGCTCTGGGCGCATGTGAGCGGGGCGCACACATCAACCC 291
QY 88 AlaValSerLeuAlaAlaMetLeuIleGlyLeuLeuGlyLeuValMetLeuLeuProTyr 107
DB 292 GCGTGTACTGTGGCATCCCTGGTGGGTGGGTCATGTCTCTCTCTCTCTCTCTCTCTAT 351
QY 108 TrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaLeuAlaLeuAlaValSerPro 127
DB 352 GTGGCTGCCAGCTGTGGGCGCGGTGGGCTGGGCTGCCATCTCCATGAGATFATCCA 411
QY 128 GluGluArgPheTrpAsnAlaSerGlyAlaAlaPheValThrValGlnGlnGln 147
DB 412 GTAGAA-----ATCCGTGGGACCTGGGTGTCAATGCTCTCCACAAACGCC 459
QY 148 ValAlaGly---AlaLeuValAlaGluIleLeuLeuThrThrLeuLeuAlaVal 166
DB 460 ACAGCTGGCCAGGCTGTGACTGTAGAGCTCTCTCTGACC-----ATGAGCTGGTGTG 513
QY 167 CysMetGlyAlaIleAsnGluLysThrLysGlyPro-----LeuAlaProPheSer 183
DB 514 TGCATCTTTGCTCCACCGAGCGCGCGGTCACACCTGGGTAGCCCTGCCCTGCCCTCC 573
QY 184 IleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGlyGlyCysMet 203
DB 574 ATTGCTTCTCTGTTACCTTGGGCGCACCTCTTGGGATCTATTTCCAGTGTCTCCATG 633
QY 204 AsnProAlaArgAlaPheGlyProAlaValAlaAsnHisTrpAsnPheHisTrpIle 223
DB 634 AATCCAGCCGCTCCCTGGCTCCAGCAGTGTGTCAGTGGCAAGTTTGATGATCAGTGGTC 693
QY 224 TyrTrpLeuGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeuLeu 239
DB 694 TCTGTGATCGGACCCCTGGTG---GGCGCATCATCTGGGCTCCCTCTCTC 738

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Search completed: October 15, 2003, 18:20:27  
Job time : 67 secs

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 1408 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 85..897
US-08-447-554-3

Alignment Scores:
Pred. No.: 3.1e-26 Length: 1408
Score: 320.00 Matches: 80
Percent Similarity: 54.66% Conservative: 49
Best Local Similarity: 33.90% Mismatches: 91
Query Match: 24.10% Indels: 16
DB: 1 Gaps: 7

US-09-864-711-15 (1-255) x US-08-447-554-3 (1-1408)
QY 13 GluProSerValGlyArgTTPArgValSerTyrGlu-----Argphe 28
DB 52 GACCCCTGGCCAGCCGACAGTGGAGCAGATGGGAACTCAGATCCATAGCCTTC 111
QY 29 ValGlnProCysLeuValGluLeuLeuGlySerAlaLeuPheIlePheIleCysLeu 48
DB 112 TCCGAGCAGAGTGGCTGAGTTCCTTGGCCAGGCTCTCTTTCTCTTTGGCCTTGGC 171
QY 49 SerValIleGlu---AsnGlyThrAspThrGlyLeuLeuGlnProAlaLeuAlaHisGly 67
DB 172 TAGCCCTCCAGTGGGCGAGCTCCCAACCTGTGTGCTCCAGATCCGCTGGCTTGGT 231
QY 68 LeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIleSerGlyGlyHisPheAsnPro 87
DB 232 CTGGGATCGGCATCTGTGTAGGCTCTGGGCGCATGTGAGCGGGGCGCACACATCAACCC 291
QY 88 AlaValSerLeuAlaAlaMetLeuIleGlyLeuLeuGlyLeuValMetLeuLeuProTyr 107
DB 292 GCGTGTACTGTGGCATCCCTGGTGGGTGGGTCATGTCTCTCTCTCTCTCTCTCTAT 351
QY 108 TrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaLeuAlaLeuAlaValSerPro 127
DB 352 GTGGCTGCCAGCTGTGGGCGCGGTGGGCTGGGCTGCCATCTCCATGAGATFATCCA 411
QY 128 GluGluArgPheTrpAsnAlaSerGlyAlaAlaPheValThrValGlnGlnGln 147
DB 412 GTAGAA-----ATCCGTGGGACCTGGGTGTCAATGCTCTCCACAAACGCC 459
QY 148 ValAlaGly---AlaLeuValAlaGluIleLeuLeuThrThrLeuLeuAlaVal 166
DB 460 ACAGCTGGCCAGGCTGTGACTGTAGAGCTCTCTCTGACC-----ATGAGCTGGTGTG 513
QY 167 CysMetGlyAlaIleAsnGluLysThrLysGlyPro-----LeuAlaProPheSer 183
DB 514 TGCATCTTTGCTCCACCGAGCGCGCGGTCACACCTGGGTAGCCCTGCCCTGCCCTCC 573
QY 184 IleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGlyGlyCysMet 203
DB 574 ATTGCTTCTCTGTTACCTTGGGCGCACCTCTTGGGATCTATTTCCAGTGTCTCCATG 633
QY 204 AsnProAlaArgAlaPheGlyProAlaValAlaAsnHisTrpAsnPheHisTrpIle 223
DB 634 AATCCAGCCGCTCCCTGGCTCCAGCAGTGTGTCAGTGGCAAGTTTGATGATCAGTGGTC 693
QY 224 TyrTrpLeuGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeuLeu 239
DB 694 TCTGTGATCGGACCCCTGGTG---GGCGCATCATCTGGGCTCCCTCTCTC 738

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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: October 15, 2003, 18:19:08 ; Search time 221 Seconds  
(without alignments)  
2994.013 Million cell updates/sec

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Scoring table: BLOSUM62

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1731049 seqs, 1297405648 residues

Total number of hits satisfying chosen parameters: 3462098

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-DB=Published Applications.NA -QEXT=fastap -SUFFIX=rnpb -MINMATCH=0.1  
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62  
-TRANS=human40.cdi -LIST=45 -DOCLALIGN=200 -THR\_SCORE=PCT -THR\_MAX=100  
-THR\_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEADSIZE=500 -MINLEN=0  
-MAXLEN=200000000 -USER=US09864711.ecgn\_1.1.164.etrnat\_15102003.112109.17095  
-NCPU=6 -ICPU=3 -NO\_MMAP -LARGEQUERY -NEG\_SCORES=0 -WAIT -DSOFPLOCK=100  
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Database : Published Applications.NA.\*

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3: /cgn2.6/ptodata/1/pubpna/US06\_NEW\_PUB.seq.\*  
4: /cgn2.6/ptodata/1/pubpna/US06\_PUBCOMB.seq.\*  
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6: /cgn2.6/ptodata/1/pubpna/PCTUS\_PUBCOMB.seq.\*  
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8: /cgn2.6/ptodata/1/pubpna/US08\_PUBCOMB.seq.\*  
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13: /cgn2.6/ptodata/1/pubpna/US10A\_PUBCOMB.seq.\*  
14: /cgn2.6/ptodata/1/pubpna/US10B\_PUBCOMB.seq.\*  
15: /cgn2.6/ptodata/1/pubpna/US10\_NEW\_PUB.seq.\*  
16: /cgn2.6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*  
17: /cgn2.6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Length	ID	Description
1	1328	100.0	1312	10 US-09-981-353-62
				Sequence 62, Appl

2	1328	100.0	1312	12 US-10-396-943-5	Sequence 5, Appl
3	1328	100.0	1354	9 US-09-864-711-8	Sequence 8, Appl
4	1328	100.0	1354	12 US-10-396-943-2	Sequence 2, Appl
5	1324	99.7	1314	14 US-10-216-408-16	Sequence 16, Appl
6	1324	99.7	1388	14 US-10-023-896-11	Sequence 11, Appl
7	1324	99.7	1410	9 US-09-925-299-67	Sequence 67, Appl
8	1324	99.7	1410	11 US-09-925-299-67	Sequence 67, Appl
9	1324	99.7	1410	14 US-10-023-896-40	Sequence 40, Appl
10	1324	99.7	1410	14 US-10-106-698-245	Sequence 245, Appl
11	1324	99.7	1712	14 US-10-106-698-1886	Sequence 1886, Ap
12	1302	98.0	1324	14 US-10-138-646-49	Sequence 49, Appl
13	524	39.5	318	11 US-09-803-719-2361	Sequence 2361, Ap
14	501	37.7	321	11 US-09-803-719-2362	Sequence 2362, Ap
15	466	35.1	314	11 US-09-803-719-2328	Sequence 2328, Ap
16	463	34.9	620	12 US-10-396-943-7	Sequence 7, Appl
17	455	34.3	269	14 US-10-216-408-7	Sequence 7, Appl
18	447	33.7	244	14 US-10-216-408-6	Sequence 6, Appl
19	434	32.7	321	11 US-09-803-719-2329	Sequence 2329, Ap
20	422	31.8	244	14 US-10-216-408-3	Sequence 3, Appl
21	418	31.5	257	14 US-10-216-408-4	Sequence 4, Appl
c 22	386	29.1	1035	9 US-09-770-445-183	Sequence 183, App
c 23	374	28.2	935	9 US-09-770-445-373	Sequence 373, App
24	372.5	28.0	759	10 US-09-887-576-810	Sequence 810, App
25	372	28.0	756	10 US-09-938-842A-2617	Sequence 2617, Ap
26	367.5	27.7	753	10 US-09-938-842A-482	Sequence 482, App
c 27	367.5	27.7	979	9 US-09-770-445-275	Sequence 275, App
28	366	27.6	279	12 US-10-396-943-8	Sequence 8, Appl
29	364	27.4	224	14 US-10-216-408-5	Sequence 5, Appl
30	361.5	27.2	753	10 US-09-938-842A-2633	Sequence 2633, Ap
31	359	27.0	847	10 US-09-887-576-442	Sequence 442, App
32	357	26.9	753	10 US-09-887-576-822	Sequence 822, App
33	353	26.6	747	10 US-09-887-576-781	Sequence 781, App
34	348	26.2	1827	10 US-09-887-576-817	Sequence 817, App
c 35	340.5	25.6	914	9 US-09-770-445-440	Sequence 440, App
36	334	25.2	1316	14 US-10-097-340-11	Sequence 11, Appl
37	334	25.2	1316	14 US-10-171-311-15	Sequence 15, Appl
38	329	24.8	317	11 US-09-803-719-2289	Sequence 2289, Ap
39	323	24.3	765	10 US-09-887-576-805	Sequence 805, App
40	314	23.6	560	10 US-09-887-576-804	Sequence 804, App
41	311	23.4	690	10 US-09-887-576-816	Sequence 816, App
c 42	308	23.2	798	9 US-09-770-445-825	Sequence 825, App
43	296.5	22.3	325	12 US-10-396-943-10	Sequence 10, Appl
c 44	288	21.7	941	9 US-09-770-445-356	Sequence 356, App
45	286.5	21.6	861	10 US-09-938-842A-807	Sequence 807, App

ALIGNMENTS

RESULT 1  
US-09-981-353-62  
; Sequence 62, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 62  
; LENGTH: 1312  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1804734CB1  
US-09-981-353-62

Alignment Scores:  
Pred. No.: 3.28e-142 Length: 1312  
Score: 1328.00 Matches: 255

Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 10 Gaps: 0

US-09-864-711-15 (1-255) x US-09-981-353-62 (1-1312)

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QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyArgTrp 20
Db 111 ATGTGTGAGCTGAAATTTGGCAATGACAAAGCCAGGAGCGCGTGGTGGCAGGTGG 170
QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGluLeuLeuGlySerAla 40
Db 171 CGAGTGTCTGTGTGACAAAGGTTTGGCAGCCATGTCGTGGTGGAGACGCTGGGCTGTGCT 230
QY 41 LeuPheIlePheIleGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60
Db 231 CTCCTTCATCTTCATCGGTGCTGTCGGTCAATGAGAAATGGAGACGACATGGGCTGTGCTG 290
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80
Db 291 CAGCGGCCCTGGCCACGGGCTGGCTTGGGGCTGCTGATTCACACGCTGGGGAAATATC 350
QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAsn 100
Db 351 AGTGGTGACACTTCAACCCCTGCGGTGTCCTGGCAGCCATGCTGATCGGAGGCTCAAC 410
QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAla 120
Db 411 CTGGTGATGCTCTCCCTGCTGACAGGTTCTCAGCTGCTCGGGGGATGCTCGGGGCTGCC 470
QY 121 LeuAlaLysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140
Db 471 TTGCCCAAGCGGCTGAGTCTCTGAGGAGAGGTTCTGGAAATGCATCTGGGGGCGCTTTGTG 530
QY 141 ThrValGlnGluGlnGlyValAlaGlyAlaLeuValAlaGluIleLeuLeuThr 160
Db 531 ACAGTCACAGAGCAGGGGAGGTGGCAGGGGCTGGTGGCAGAGATCCTGAGCAGG 590
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrLysGlyProLeuAla 180
Db 591 CTGGTGCCCTGCTGATGATGATGGTGCCATCAATGAGAAAGACAAAGGCGCTCTGGCC 650
QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGly 200
Db 651 CCGTTCCTCATCGGCTTTGCCGTGACCGGTGATATCTGGCTGGGGCCCTGTGCTGGA 710
QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValAlaAlaAsnHisTrpAsnPhe 220
Db 711 GGCTGCATGAATCCCGCCCTGCTTTTGGACCTGGGGTGGTGGGACCTGGAACCTTC 770
QY 221 HisTrpIleTyrTrpLeuGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeuIleArg 240
Db 771 CACTGGATCTACTGTGGTGGGCCACTCTGCTGGGCTGCTGTGTGGACTGCTCATTAGG 830
QY 241 CysPheIleGlyAspGlyLysThrArgLeuIleLeuLysAlaArg 255
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## RESULT 2

US-10-396-943-5

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; Sequence 5, Application US/10396943
; Publication No. US20030158085A1
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmut, Wayne
; APPLICANT: Klinger, Tod M.
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/10/396,943
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/610,906
; PRIOR FILING DATE: 2000-07-06

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; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 5
; LENGTH: 1312
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20030158085A1 1804734CB1
; PUBLICATION INFORMATION:
US-10-396-943-5

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## Alignment Scores:

Pred. No.: 3 28e-142 Length: 1312  
 Score: 1328.00 Matches: 255  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 12 Gaps: 0

US-09-864-711-15 (1-255) x US-10-396-943-5 (1-1312)

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QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyArgTrp 20
Db 111 ATGTGTGAGCTGAAATTTGGCAATGACAAAGCCAGGAGCGCGTGGTGGCAGGTGG 170
QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGluLeuLeuGlySerAla 40
Db 171 CGAGTGTCTGTGTGACAAAGGTTTGGCAGCCATGTCGTGGTGGAGACGCTGGGCTGTGCT 230
QY 41 LeuPheIlePheIleGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60
Db 231 CTCCTTCATCTTCATCGGTGCTGTCGGTCAATGAGAAATGGAGACGACATGGGCTGTGCTG 290
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80
Db 291 CAGCGGCCCTGGCCACGGGCTGGCTTGGGGCTGCTGATTCAGGAGACGCTGGGGAAATATC 350
QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyGlyLeuAsn 100
Db 351 AGTGGTGACACTTCAACCCCTGCGGTGTCCTGGCAGCCATGCTGATCGGAGGCTCAAC 410
QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAla 120
Db 411 CTGGTGATGCTCTCCCTGCTGACAGGTTCTCAGCTGCTCGGGGGATGCTCGGGGCTGCC 470
QY 121 LeuAlaLysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140
Db 471 TTGCCCAAGCGGCTGAGTCTCTGAGGAGAGGTTCTGGAAATGCATCTGGGGGCGCTTTGTG 530
QY 141 ThrValGlnGluGlnGlyValAlaGlyAlaLeuValAlaGluIleLeuLeuThr 160
Db 531 ACAGTCACAGAGCAGGGGAGGTGGCAGGGGCTGGTGGCAGAGATCCTGAGCAGG 590
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrLysGlyProLeuAla 180
Db 591 CTGGTGCCCTGCTGATGATGATGGTGCCATCAATGAGAAAGACAAAGGCGCTCTGGCC 650
QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGly 200
Db 651 CCGTTCCTCATCGGCTTTGCCGTGACCGGTGATATCTGGCTGGGGCCCTGTGCTGGA 710
QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValAlaAlaAsnHisTrpAsnPhe 220
Db 711 GGCTGCATGAATCCCGCCCTGCTTTTGGACCTGGGGTGGTGGGACCTGGAACCTTC 770
QY 221 HisTrpIleTyrTrpLeuGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeuIleArg 240
Db 771 CACTGGATCTACTGTGGTGGGCCACTCTGCTGGGCTGCTGTGTGGACTGCTCATTAGG 830
QY 241 CysPheIleGlyAspGlyLysThrArgLeuIleLeuLysAlaArg 255

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Db 831 TGCTTCATGGAGATGGGAAGACCGCTCATCTCCTGAAGGCTCG 875  
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## RESULT 3

US-09-864-711-8  
; Sequence 8, Application US/09864711  
; Patent No. US20020077309A1  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkmueth, Wayne  
; APPLICANT: Klingler, Tod M.  
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS  
; FILE REFERENCE: PB-0008-1 CIP  
; CURRENT APPLICATION NUMBER: US/09/864,711  
; CURRENT FILING DATE: 2001-05-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PERL Program  
; SEQ ID NO 8  
; LENGTH: 1354  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: 2774542CB1  
US-09-864-711-8

Alignment Scores:  
Pred. No.: 3,42e-142 Length: 1354  
Score: 1328.00 Matches: 255  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
Gaps: 0  
DB:

US-09-864-711-15 (1-255) x US-09-864-711-8 (1-1354)

QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyArgTrp 20  
Db 148 ATGTGTGACCTGATTTGGCAATGACAGGCCAGGCGAGCGGTGGTGGCAGGTGG 207  
QY 21 ArgValSerTrpTrpGluArgPheValGlnProCysLeuValGluLeuGlySerAla 40  
Db 208 CGAGTGTCTGTGTACGAACGGTTTGTGCAGCCATCTGTGTGCAACTGTGGCTCTGCT 267  
QY 41 LeuPheLeuPheLeuGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60  
Db 268 CTCTTCATCTTCATCGGGTCCCTGCGGTTCCTGCGGAGTGGGAGACATCGGGCTGTG 327  
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80  
Db 328 CAGCGGCCCTGGCCACGGCTGGCTTTGGGGCTCTGATTCGACGCTGGGAGGATATC 387  
QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuLeuGlyLeuAsn 100  
Db 388 AGTGTGGACACTTCAACCTCGCGGTGTCCTGGCAGCATGCTGATCGGAGGCTCAAC 447  
QY 101 LeuValMetLeuLeuProTrpTrpValSerGlnLeuLeuGlyMetLeuGlyAlaAla 120  
Db 448 CTGGTATCTCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCGGGGCTGCC 507  
QY 121 LeuAlaLysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140  
Db 508 TTGGCCAAAGCGGTGAGTCTGAGGAGAGGTCTGGATGATCTGGGGGGCGCTTTG 567  
QY 141 ThrValGlnGlnGlnGlnValAlaGlyAlaLeuValAlaGluIleLeuLeuThrThr 160  
Db 568 ACAGTCCAGGAGCAGGCGAGTGGCAGGGGCGTGGTGGCAGAGATCATCTCGACGAG 627  
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrLysGlyProLeuAla 180  
Db 628 CTGCTGGCCCTGGCTGTATGATGGGTGGCCATCAATGATGAGAAAGAGGCGCTCTGGCC 687  
QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGly 200  
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Db 688 CGGTTCTCCATCGGCTTTGGCGCTCACCGTGATATCTGCTGGGGCGCTGTGCTGGA 747  
QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValValAlaAsnHisTrpAsnPhe 220  
Db 748 GGCTGCATGAATCCGCCCGCTGCTTTGGACCTCGGTGTGGTGGCCAAACCTTGAACCTTC 807  
QY 221 HistTrpIleTrpTrpLeuGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeuLeu 240  
Db 808 CACTGGATCTACTGGCTGGGCCCCACTCCTGCTGGCTGCTTGTGGACTGCTCATTAGG 867  
QY 241 CysPheIleGlyAspGlyLysThrArgLeuLeuLeuLysAlaArg 255  
Db 868 TGCATTGATGGAGTGGAGAGACCGCCCTCATCTGAAGGCTCG 912

## RESULT 4

US-10-396-943-2  
; Sequence 2, Application US/10396943  
; Publication No. US20030158085A1  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkmueth, Wayne  
; APPLICANT: Klingler, Tod M.  
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT  
; FILE REFERENCE: PC-0012 CIP  
; CURRENT APPLICATION NUMBER: US/10/396,943  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US/09/610,906  
; PRIOR FILING DATE: 2000-07-06  
; PRIOR APPLICATION NUMBER: 09/226,994  
; PRIOR FILING DATE: 1999-01-07  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PERL Program  
; SEQ ID NO 2  
; LENGTH: 1354  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20030158085A1 2774542CB1  
US-10-396-943-2

## Alignment Scores:

Pred. No.: 3,42e-142 Length: 1354  
Score: 1328.00 Matches: 255  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
Gaps: 0  
DB:

US-09-864-711-15 (1-255) x US-10-396-943-2 (1-1354)

QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyArgTrp 20  
Db 148 ATGTGTGACCTGATTTGGCAATGACAGGCCAGGAGCGGCGGTGGTGGCAGGTGG 207  
QY 21 ArgValSerTrpTrpGluArgPheValGlnProCysLeuValGluLeuLeuGlySerAla 40  
Db 208 CGAGTGTCTGTGTACGAACGGTTTGTGCAGCCATCTGTGTGCAACTGTGGCTCTGCT 267  
QY 41 LeuPheLeuPheLeuGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60  
Db 268 CTCTTCATCTTCATCGGGTCCCTGCGGTTCATGAGATGGGAGACACTGGGCTGCTG 327  
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80  
Db 328 CAGCGGCCCTGGCCACGGCTGGCTTTGGGGCTCTGATTCGACGCTGGGAGGATATC 387  
QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuLeuGlyLeuAsn 100  
Db 388 AGTGTGGACACTTCAACCTCGCGGTGTCCTGGCAGCATGCTGTGATCGGAGGCTCAAC 447  
QY 101 LeuValMetLeuLeuProTrpTrpValSerGlnLeuLeuGlyMetLeuGlyAlaAla 120  
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## RESULT 6

US-10-023-896-11  
 ; Sequence 11, Application US/10023896  
 ; Publication No. US2003002776A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Victor Roschke  
 ; TITLE OF INVENTION: 29 Human Cancer Associated Proteins  
 ; FILE REFERENCE: PA004P1  
 ; CURRENT APPLICATION NUMBER: US/10/023,896  
 ; CURRENT FILING DATE: 2001-12-21  
 ; PRIOR APPLICATION NUMBER: unassigned  
 ; PRIOR FILING DATE: 2001-12-21  
 ; PRIOR APPLICATION NUMBER: PCT/US00/23794  
 ; PRIOR FILING DATE: 2000-08-30  
 ; PRIOR APPLICATION NUMBER: 60/152,296  
 ; PRIOR FILING DATE: 1999-09-03  
 ; PRIOR APPLICATION NUMBER: 60/158,003  
 ; PRIOR FILING DATE: 1999-10-06  
 ; NUMBER OF SEQ ID NOS: 138  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 11  
 ; LENGTH: 1388  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; LOCATION: (1388)..(1388)  
 ; OTHER INFORMATION: n equals a.t.g, or c  
 US-10-023-896-11

Alignment Scores:  
 Pred. No.: 1,01e-141 Length: 1388  
 Score: 1324.00 Matches: 254  
 Percent Similarity: 100.00% Conservative: 1  
 Best Local Similarity: 99.61% Mismatches: 0  
 Query Match: 99.70% Indels: 0  
 DB: 14 Gaps: 0

US-09-864-711-15 (1-255) x US-10-023-896-11 (1-1388)

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 DB 128 ARGGTGAGCTGTGATTTGGCATGACAGCCAGGAGCGGCTGGTGGCAGGTGG 187  
 QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGlnLeuLeuSerAla 40  
 DB 188 CGAGTGTCTGTGACGACGCTTTGTGACGCCATCTGTGTCGAACCTGCTGGCTCTGCT 247  
 QY 41 LeuPheIlePheIleGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeu 60  
 DB 248 CTCCTCACTTCATCGGGTGCCTGTCGGTCATGTAGATGGAGGACGACACTGGGCTGCTG 307  
 QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80  
 DB 308 CAGCCGGCCCTGGCCACGCGCTGGCTTTGGGGCTCGTGTGATTCGACGCTGGGGAATATC 367  
 QY 81 SerGlyGlyHisPheAsnProAlaValSerIleuAlaMetIleuIleGlyLeuAsn 100  
 DB 368 AGTGGTGGACATTCACACCTTCGGGTGTCCTTGGCAGCCATGCTGATGAGGCGCTCAAC 427  
 QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAla 120  
 DB 428 CTGGTGATCTCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCGGGGCTGCC 487  
 QY 121 LeuAlaLysAlaValSerProGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140  
 DB 488 TTGGCCCAAGCGCGGTGAGTCTCTGAGGAGAGGTTCTGGAATGTCATCGGGCGGCTTTTG 547  
 QY 141 ThrValGlnGlnGlyGlnValAlaGlyAlaLeuValAlaGlnIleIleLeuThrThr 160  
 DB 548 ACAGTCCAGACAGGCGAGGTGGCAGGGGCTTGGTGGCAGAGATCATCTCTGACGAG 607  
 QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGlnIuThrIuThrIuProLeuAla 180

DB 608 CTGCTGGCCCTGGCTGTATGTCATGGTGCCATCAATGAGAGCAAGGCCCTCTGGCC 567  
 QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGly 200  
 DB 668 CCGTTCTCCATCGGCTTTGGCGTCACCGTCATCTCTGGTGGGGGCCCTGTGTCTGGA 727  
 QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValAlaAsnHisTrpAsnPhe 220  
 DB 728 GGTTCATGATCCCGCCCGGTCGTTTGGACCTGGGGTGGCCACCACTGGAACCTC 787  
 QY 221 HistripletyrTrpLeuGlyProLeuLeuAlaGlyLeuValGlyLeuLeuIleArg 240  
 DB 788 CACTGGATCTACTGGCTGGGCCCACTCTCTGGTGGCGCTTGTGGACTGCTCATTAGG 847  
 QY 241 CysPheIleGlyAspGlyIysThrArgIleuLeuIleLysAlaArg 255  
 DB 848 TGCTTCATTGGAGATGGGAAGACCCGCTCATCTCAAGGCTCAG 892

RESULT 7  
 US-09-925-299-67  
 ; Sequence 67, Application US/09925299  
 ; Patent No. US20020055627A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rosen et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
 ; FILE REFERENCE: PA102  
 ; CURRENT APPLICATION NUMBER: US/09/925,299  
 ; CURRENT FILING DATE: 2001-08-10  
 ; PRIOR APPLICATION NUMBER: PCT/US00/05883  
 ; PRIOR FILING DATE: 2000-03-08  
 ; PRIOR APPLICATION NUMBER: 60/124,270  
 ; PRIOR FILING DATE: 1999-03-12  
 ; NUMBER OF SEQ ID NOS: 1556  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 67  
 ; LENGTH: 1410  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-925-299-67

Alignment Scores:  
 Pred. No.: 1,04e-141 Length: 1410  
 Score: 1324.00 Matches: 254  
 Percent Similarity: 100.00% Conservative: 1  
 Best Local Similarity: 99.61% Mismatches: 0  
 Query Match: 99.70% Indels: 0  
 DB: 9 Gaps: 0

US-09-864-711-15 (1-255) x US-09-925-299-67 (1-1410)

QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyGlyArgTrp 20  
 DB 119 ATGTGTAGCTGAATTTGGCAATGACAAAGCCAGGAGCGGAGCGTGGTGGCAGGTGG 178  
 QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGlnLeuLeuGlySerAla 40  
 DB 179 CGAGTGTCTGTGACGACGCTTTGTGCGCCATGCTGTGCAACTGCTGGGCTCTGCT 238  
 QY 41 LeuPheIlePheIleGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeu 60  
 DB 239 CTCCTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGACACTGGGCTCTG 298  
 QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80  
 DB 299 CAGCGCGCCCTGGCCACCGGCTGGCTTTGGGGCTCGTATTGCCACCTGGGGAATATC 358  
 QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetIleuIleGlyLeuAsn 100  
 DB 359 AGTGTGGACACTTCACCTCCGCTGCTGGCAGCCATGCTGATCGGAGGCTCAAC 418  
 QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyMetLeuGlyAlaAla 120

Db 419 CTGGTGTATGCTCTCCCTGCTCTACAGCTGCTCGGGGGGATGCTCGGGGGCTGCC 478  
 QY 121 LeuAlaLysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140  
 Db 479 TTGGCCAGGCGGTGAGTCTCTGAGAGAGGCTTCTGGAATGCATCTGGGGCGGCTTTGTG 538  
 QY 141 ThrValGlnGlnGlnGlnValAlaGlyAlaLeuValAlaGluIleIleLeuThrThr 160  
 Db 539 ACAGTCCAGAGCAGGGGCGAGGTGGCGGCGGTGGTGGCAGAGATCATCTCTGACGAG 598  
 QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrLysGlyProLeuAla 180  
 Db 599 CTGCTGCCCTGCGTGTATGATGCTGGTGCATCAATGAGAGACAAAGGGCCCTCTGGCC 658  
 QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGly 200  
 Db 659 CCGTCTCCATCCATCGCTTGGCGTCAACGCTGATATCTCGGCTGGGGGCGCTGTGTGGA 718  
 QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValAlaAlaAsnHisTrpAsnPhe 220  
 Db 719 GGCTGCATGAATCCCGCGGCTTTTGGACCTGGGCTGGTGGCCCAACCACTGGAACATC 778  
 QY 221 HistTrpIleTrpIleuGlyProLeuAlaGlyLeuValGlyLeuLeuIleArg 240  
 Db 779 CACTGGATCTACTGGCTGGGGCCACTCTGCTGGCTGGCTGTGTGGACTGCTCATTAGG 838  
 QY 241 CysPheIleGlyAspGlyLysThrArgIleLeuLysAlaArg 255  
 Db 839 TGCTTCATTTGGAGATGGGAGACCGCGCTCATCTCTGAAGGCTCAG 883

## RESULT 8

US-09-925-299-67  
 ; Sequence 67, Application US/09925299  
 ; Publication No. US20030040617A9  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rosen et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
 ; FILE REFERENCE: PA102  
 ; CURRENT APPLICATION NUMBER: US/09/925,299  
 ; CURRENT FILING DATE: 2001-08-10  
 ; PRIOR APPLICATION NUMBER: PCT/US00/05883  
 ; PRIOR FILING DATE: 2000-03-08  
 ; PRIOR APPLICATION NUMBER: 60/124,270  
 ; PRIOR FILING DATE: 1999-03-12  
 ; NUMBER OF SEQ ID NOS: 1556  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 67  
 ; LENGTH: 1410  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-925-299-67

Alignment Scores:  
 Pred. No.: 1,04e-141 Length: 1410  
 Score: 1324.00 Matches: 254  
 Percent Similarity: 100.00% Conservative: 1  
 Best Local Similarity: 99.61% Mismatches: 0  
 Query Match: 99.70% Indels: 0  
 DB: 11 Gaps: 0

US-09-864-711-15 (1-255) x US-09-925-299-67 (1-1410)

QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyArgTrp 20  
 Db 119 ATGCTGTAGCTCTGATTTGGCAATGCACAGCCAGGAGCCAGGCTGGGCGGAGGTGG 178  
 QY 21 ArgValSerTrpTrpGluArgPheValGlnProCysLeuValGluLeuGlySerAla 40  
 Db 179 CGAGTGTCTCTGACGAGCGGTGTGTGCGAGCCATGTCTGTGAACTGCTGGGCTGTGCT 238  
 QY 41 LeuPheIlePheIleGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60  
 Db 239 CTCCTTCATCTTCATCGGGTGCCTGTGCTGCTATTGAGAAATGGGACGACACTGGGCTG 298

QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrIleuGlyAsnIle 80  
 Db 299 CAGCGCGGCTTGGCCACAGGCTGGCTTTGGGGTCTGCTGATTGCCACGCTGGGGAATATC 358  
 QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaMetLeuIleGlyGlyLeuAsn 100  
 Db 359 AGTGTGTGACACTTCAACCCCTCGGTGTCCCTGGAGCCATGCTGATCGGAGGCTCAAC 418  
 QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAla 120  
 Db 419 CTGGTGTGCTCTCCCGTACTGGGTCTACAGCTGCTCGGGGGGATGCTCGGGGCTGCC 478  
 QY 121 LeuAlaLysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140  
 Db 479 TTGGCCAGGCGGTGAGTCTCTGAGGAGGTTCTGGAATCATCTGGGGCGGCTTTGTG 538  
 QY 141 ThrValGlnGlnGlnGlnValAlaGlyAlaLeuValAlaGluIleIleLeuThrThr 160  
 Db 539 ACAGTCCAGGAGCAGGGGCGAGGTGGCAGGGGCTGTGTGGCAGAGATCATCTGACGAGC 598  
 QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrIleGlyProLeuAla 180  
 Db 599 CTGCTGGCGGCTTGGCTGTATGATGGGTGCATCAATGAGAGACAAAGGGCCCTCTGGCC 658  
 QY 181 PropheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGly 200  
 Db 659 CCGTCTCCATCCATCGCTTGGCGTCAACGCTGATATCTGCTGGGGCGGCTGTGTGGA 718  
 QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValValAlaAlaAsnHisTrpAsn 220  
 Db 719 GGCTGCATGAATCCCGCGGCTTTTGGACCTGGGTGTGGTGGTGGTGGTGGTGGTGGT 778  
 QY 221 HistTrpIleTrpLeuGlyProLeuAlaGlyLeuValGlyLeuValGlyLeuIleArg 240  
 Db 779 CACTGGATCTACTGGCTGGGGCCACTCTCTGGCTGGCTGCTGTGTGGACTGCTCATTAGG 838  
 QY 241 CysPheIleGlyAspGlyLysThrArgLeuIleLeuLysAlaArg 255  
 Db 839 TGCTTCATTTGGAGATGGGAGACCGCGCTCATCTCTGAAGGCTCAG 883

## RESULT 9

US-10-023-896-40  
 ; Sequence 40, Application US/10023896  
 ; Publication No. US2003002776A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Victor Roschke  
 ; TITLE OF INVENTION: 29 Human Cancer Associated Proteins  
 ; FILE REFERENCE: PA004P1  
 ; CURRENT APPLICATION NUMBER: US/10/023,896  
 ; CURRENT FILING DATE: 2001-12-21  
 ; PRIOR APPLICATION NUMBER: unassigned  
 ; PRIOR FILING DATE: 2001-12-21  
 ; PRIOR APPLICATION NUMBER: PCT/US00/23794  
 ; PRIOR FILING DATE: 2000-08-30  
 ; PRIOR APPLICATION NUMBER: 60/152,296  
 ; PRIOR FILING DATE: 1999-09-03  
 ; PRIOR APPLICATION NUMBER: 60/158,003  
 ; PRIOR FILING DATE: 1999-10-06  
 ; NUMBER OF SEQ ID NOS: 138  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 40  
 ; LENGTH: 1410  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-023-896-40

Alignment Scores:  
 Pred. No.: 1,04e-141 Length: 1410  
 Score: 1324.00 Matches: 254  
 Percent Similarity: 100.00% Conservative: 1  
 Best Local Similarity: 99.61% Mismatches: 0  
 Query Match: 99.70% Indels: 0

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DB: 14 Gaps: 0
US-09-864-711-15 (1-255) x US-10-023-896-40 (1-1410)
QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyGlyArgTrp 20
DB 119 ATGTGTGAGCCTGAATTTGGCAATGACAAAGCCAGGAGCCGAGCGTGGTGGCAGGTGG 178
QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGlnLeuLeuGlySerAla 40
DB 179 CGAGTGTCTCTGTGACAGCGTTTGTGCAGCCATGCTGTGCAACTGCTGGGCTCTGCT 238
QY 41 LeuPheLePheLeGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60
DB 239 CTCCTTCATCTTCATCGGGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 298
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuValIleAlaThrLeuGlyAsnIle 80
DB 299 CAGCGGCGCTTGGCCACGCGCTGGCTTGGGGCTGCTGATGCCACGCTGGGGAAATC 358
QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAsn 100
DB 359 AGTGTGTGACATTCACCTCCCTGCGGTGCTGCTGCGACCCATGCTGATCGGAGGCTCAAC 418
QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAla 120
DB 419 CTGGTGTGATGCTCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 478
QY 121 LeuAlaLysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140
DB 479 TTGGCCAAAGGCGGTGAGTCTGAGGAGAGTCTGGAATGCAATCTGGGGGCGCTTTGTG 538
QY 141 ThrValGlnGluGlnGlyGlnValAlaGlyAlaLeuValAlaGluIleLeuThr 160
DB 539 ACAGTCCAGGAGCAGGCGGAGGTGCGAGGGCGGTGCTGCGACAGATCATCTGACGACG 598
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGlyThrLysGlyProLeuAla 180
DB 599 CTGCTGGCCCTTGGCTGTATGCGTACCTGCGTCCATCAATGAGAAGACAAGGGCCCTG 658
QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGly 200
DB 659 CGTCTCTCATCGGCTTGGCGTACCTGCGTACCTGCGTACCTGCGTACCTGCGTACCTG 718
QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValValAlaAsnHisTrpAsnPhe 220
DB 719 GGCTGCATGAATCCCGCCGCTGCTTTGGACCTGCGGTGCTGCGACAGATCATCTGACGACG 778
QY 221 HistTrpIleTyrTrpLeuGlyProLeuAlaGlyLeuLeuValGlyLeuLeuIleArg 240
DB 779 CACTGGATCTACTGGCTGGGCGCCACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 838
QY 241 CysPheIleGlyAspGlyLysThrArgLeuIleLeuLysAlaArg 255
DB 839 TGCTTCATTGGAGATGGAGAGACCCGCTCATCTGAGGCTCAG 883
RESULT 10
US-10-106-698-245
; Sequence 245, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA00511
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
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; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 245
; LENGTH: 1410
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-106-698-245
Alignment Scores:
Pred. No.: 1,04e-141 Length: 1410
Score: 1324.00 Matches: 254
Percent Similarity: 100.00% Conservativity: 1
Best Local Similarity: 99.61% Mismatches: 0
Query Match: 99.70% Indels: 0
DB: 14 Gaps: 0
US-09-864-711-15 (1-255) x US-10-106-698-245 (1-1410)
QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyGlyArgTrp 20
DB 119 ATGTGTGAGCCTGAATTTGGCAATGACAAAGCCAGGAGCCGAGCGTGGTGGCAGGTGG 178
QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGlnLeuLeuGlySerAla 40
DB 179 CGAGTGTCTCTGTGACAGCGTTTGTGCAGCCATGCTGTGCAACTGCTGGGCTCTGCT 238
QY 41 LeuPheLePheLeGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60
DB 239 CTCCTTCATCTTCATCGGGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 298
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuValIleAlaThrLeuGlyAsnIle 80
DB 299 CAGCGGCGCTTGGCCACGCGCTGGCTTGGGGCTGCTGATGCCACGCTGGGGAAATC 358
QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAsn 100
DB 359 AGTGTGTGACATTCACCTCCCTGCGGTGCTGCTGCGACCCATGCTGATCGGAGGCTCAAC 418
QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAla 120
DB 419 CTGGTGTGATGCTCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 478
QY 121 LeuAlaLysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140
DB 479 TTGGCCAAAGGCGGTGAGTCTGAGGAGAGTCTGGAATGCAATCTGGGGGCGCTTTGTG 538
QY 141 ThrValGlnGluGlnGlyGlnValAlaGlyAlaLeuValAlaGluIleLeuThr 160
DB 539 ACAGTCCAGGAGCAGGCGGAGGTGCGAGGGCGGTGCTGCGACAGATCATCTGACGACG 598
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGlyThrLysGlyProLeuAla 180
DB 599 CTGCTGGCCCTTGGCTGTATGCGTACCTGCGTCCATCAATGAGAAGACAAGGGCCCTG 658
QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGly 200
DB 659 CGTCTCTCATCGGCTTGGCGTACCTGCGTACCTGCGTACCTGCGTACCTGCGTACCTG 718
QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValValAlaAsnHisTrpAsnPhe 220
DB 719 GGCTGCATGAATCCCGCCGCTGCTTTGGACCTGCGGTGCTGCGACAGATCATCTGACGACG 778
QY 221 HistTrpIleTyrTrpLeuGlyProLeuAlaGlyLeuLeuValGlyLeuLeuIleArg 240
DB 779 CACTGGATCTACTGGCTGGGCGCCACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 838
QY 241 CysPheIleGlyAspGlyLysThrArgLeuIleLeuLysAlaArg 255
DB 839 TGCTTCATTGGAGATGGAGAGACCCGCTCATCTGAGGCTCAG 883
RESULT 11
US-10-106-698-1986
; Sequence 1986, Application US/10106698
; Publication No. US20030109690A1
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QY 100 snLeuValMetLeuLeuProTyrrTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAla 120  
Db 416 ACTGGTATGCTCTCCCTACTGGGTCACAGCTGCTCGGGGGGATGCTCGGGGGT 475  
QY 120 laLeuAlaValSerProGlnGluArgPheTrpAsnAlaSerGlyAlaAlaPheV 140  
Db 476 CTTGGCCCAAGCGGTGAGTCTCTGAGAGAGAGGTCTGGATGATCTGGGGCGGCTTTG 535  
QY 140 alThrValGlnGlnGlnGlnValAlaGlyAlaLeuValAlaGluIleLeuLeuThr 160  
Db 536 TGACAGTCCAGAGCAGGGCAGGTGGCAGGGGGCTGGTGCCAGAGATCATCTCGAGCA 595  
QY 160 hrLeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGlnLysThrLysGlyProLeuA 180  
Db 596 CGTGTGCTGCTGCTGCTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 655  
QY 180 laProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerG 200  
Db 656 CCGCGTTCATCGGCTTTGCCGTCCCGTGGATATCTTGGTGGGGGCTGCTGCTGCTG 715  
QY 200 lylGlyCysMetAsnProAlaArgAlaPheGlyProAlaValAlaAlaAsnHisTrpAsn 220  
Db 716 GAGGTGCTGATGAATCCCGCCGCTGCTTTTGGACCTGGGTGGCCACCACTGGAAC 775  
QY 220 heHisTrpIleTyrrTrpLeuGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeuIleA 240  
Db 776 TCATGTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 835  
QY 240 rGlyPheIleGlyAspGlyLysThrArgLeuIleLeuLysAlaArg 255  
Db 836 GGTGCTTCATGGAGATGGAGAGACCCGCTCATCTGGAAGGCTCG 882

RESULT 13

US-09-803-719-2361  
; Sequence 2361, Application US/09803719  
; Publication No. US20030044783A1

GENERAL INFORMATION:

; APPLICANT: Williams, Lewis T.  
; APPLICANT: Escobedo, Jaime  
; APPLICANT: Innis, Michael A.  
; APPLICANT: Garcia, Pablo Dominguez  
; APPLICANT: Sudduth-Klinger, Julie  
; APPLICANT: Reinhard, Christoph  
; APPLICANT: Giese, Klaus  
; APPLICANT: Sudduth-Klinger, Julie  
; APPLICANT: Randazzo, Filippo  
; APPLICANT: Kennedy, Giulia C.  
; APPLICANT: Pot, David  
; APPLICANT: Kassam, Altaf  
; APPLICANT: Lamson, George  
; APPLICANT: Drmanac, Radoje  
; APPLICANT: Crkvenjakov, Radomir  
; APPLICANT: Dickson, Mark  
; APPLICANT: Drmanac, Snezana  
; APPLICANT: Labat, Ivan  
; APPLICANT: Leshkowitz, Dena  
; APPLICANT: Kita, David  
; APPLICANT: Garcia, Veronica  
; APPLICANT: Jones, Lee William  
; APPLICANT: Stache-Crain, Birgit  
; TITLE OF INVENTION: Human Genes and Gene Products  
; FILE REFERENCE: 1624.002  
; CURRENT APPLICATION NUMBER: US/09/803,719  
; PRIOR FILING DATE: 2001-03-09  
; PRIOR APPLICATION NUMBER: 60/188,609  
; PRIOR FILING DATE: 2000-03-09  
; NUMBER OF SEQ ID NOS: 2396  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2361  
; LENGTH: 318  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-09-803-719-2361

Alignment Scores:

Pred. No.: 4,7e-51 Length: 318  
Score: 524.00 Matches: 103  
Percent Similarity: 98.10% Conservative: 0  
Best Local Similarity: 98.10% Mismatches: 2  
Query Match: 39.46% Indels: 0  
DB: 11 Gaps: 0

US-09-864-711-15 (1-255) x US-09-803-719-2361 (1-318)

QY 116 MetLeuGlyAlaAlaLeuAlaLysAlaValSerProGlnGluArgPheTrpAsnAlaSer 135  
Db 2 ATGCTCGGGGCTGCTTGGCCAGGCGGTGAGTCTCTGAGGAGGTTCTGGGAATGCATCT 61  
QY 136 GlyAlaAlaPheValThrValGlnGlnGlnValAlaGlyAlaLeuValAlaGlu 135  
Db 62 GGGCGGCGCTTTGGACAGTCCAGGAGCAGGGGCGAGTGGCAGGGCGTGGTGGCAGAG 121  
QY 156 IleIleLeuThrThrLeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGlnLysThr 175  
Db 122 ATCATCTCTGAGCAGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 181  
QY 176 LysGlyProLeuAlaProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGly 195  
Db 182 AAGGCGCTCTGGCCCGCTTCCATCGCTTGCCTCACCCGCGATATCTGGACCTCGGCTGG 241  
QY 196 GlyProValSerGlyGlyCysMetAsnProAlaArgAlaPheGlyProAlaValAla 215  
Db 242 GGCCTGTGCTGGAGGCTGCATGAATCCCGCGCTGCTTTTGGACCTCGGCGGGGTGGCC 301  
QY 216 AsnHisTrpAsnPhe 220  
Db 302 AACCACTGGAACCTTT 316

RESULT 14

US-09-803-719-2362  
; Sequence 2362, Application US/09803719  
; Publication No. US20030044783A1

GENERAL INFORMATION:

; APPLICANT: Williams, Lewis T.  
; APPLICANT: Escobedo, Jaime  
; APPLICANT: Innis, Michael A.  
; APPLICANT: Garcia, Pablo Dominguez  
; APPLICANT: Sudduth-Klinger, Julie  
; APPLICANT: Reinhard, Christoph  
; APPLICANT: Giese, Klaus  
; APPLICANT: Randazzo, Filippo  
; APPLICANT: Kennedy, Giulia C.  
; APPLICANT: Pot, David  
; APPLICANT: Kassam, Altaf  
; APPLICANT: Lamson, George  
; APPLICANT: Drmanac, Radoje  
; APPLICANT: Crkvenjakov, Radomir  
; APPLICANT: Dickson, Mark  
; APPLICANT: Drmanac, Snezana  
; APPLICANT: Labat, Ivan  
; APPLICANT: Leshkowitz, Dena  
; APPLICANT: Kita, David  
; APPLICANT: Garcia, Veronica  
; APPLICANT: Jones, Lee William  
; APPLICANT: Stache-Crain, Birgit  
; TITLE OF INVENTION: Human Genes and Gene Products  
; FILE REFERENCE: 1624.002  
; CURRENT APPLICATION NUMBER: US/09/803,719  
; PRIOR FILING DATE: 2001-03-09  
; PRIOR APPLICATION NUMBER: 60/188,609  
; PRIOR FILING DATE: 2000-03-09  
; NUMBER OF SEQ ID NOS: 2396  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2362  
; LENGTH: 321  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-09-803-719-2362

Alignment Scores:

Pred. No.:	2,048-48	Length:	321
Score:	501.00	Matches:	104
Percent Similarity:	97.20%	Conservative:	0
Best Local Similarity:	97.20%	Mismatches:	3
Query Match:	97.77%	Indels:	1
DB:	11	Gaps:	0

US-09-864-711-15 (1-255) x US-09-803-719-2362 (1-321)

QY	30	GlnProCysLeuValGlnLeuLeuGlySerAlaLeuPheIlePheIleGlyCysLeuSer	49
DB	1	CAGCATCTGTGTCGAACTGTGGGCTCTGCTCTCTCATCTTCATCGGGTGGCTGTGG	60
QY	50	ValIleGluAsnGlyThrAspThrGlyLeuLeuGlnProAlaLeuAlaHisGlyLeuAla	69
DB	61	GTCAATCAG - AATGGGACGGCACTGGGCTGCTCAGACGGCCCTGGCCCCACGGGTGGCT	119
QY	70	LeuGlyLeuValIleAlaThrLeuClyAsnIleSerGlyGlyHisPheAsnProAlaVal	89
DB	120	TTGGGGCTCGGANTGTCACGCTGGGGAATCAGTGGTGGACACTTCACCTCGCGGTG	179
QY	90	SerLeuAlaAlaMetLeuIleGlyLeuAsnLeuValMetLeuLeuProTyrTrpVal	109
DB	180	TCCTTGGCAGCCATGCTGATGGAGGCCCTCAACTGGTGATGCTCTCTCCCGTACTGGSTC	239
QY	110	SerGlnLeuLeuGlyGlyMetLeuClyAlaAlaLeuAlaLysAlaValSerProGluGlu	129
DB	240	TCACAGCTGCTGGGGGGATGCTCGGGGCTGCCTTGGCCAAAGCGGTGAGTCTCTGAGGAG	299
QY	130	ArgPheTrpAsnAlaSerGly	136
DB	300	AGGCTCTGGAATGATCTGGG	320

RESULT 15

US-09-803-719-2328  
; Sequence 2328, Application US/09803719  
; Publication No. US20030044783A1

GENERAL INFORMATION:

```

> APPLICANT: Williams, Lewis T.
> APPLICANT: Escobedo, Jaime
> APPLICANT: Innis, Michael A.
> APPLICANT: Garcia, Pablo Dominquez
> APPLICANT: Sudduth-Klinger, Julie
> APPLICANT: Reinhard, Christoph
> APPLICANT: Giese, Klaus
> APPLICANT: Randazzo, Filippo
> APPLICANT: Kennedy, Giulia C.
> APPLICANT: Pot, David
> APPLICANT: Kassam, Altaf
> APPLICANT: Lamson, George
> APPLICANT: Drmanac, Radoje
> APPLICANT: Krvenjakov, Radomir
> APPLICANT: Dickson, Mark
> APPLICANT: Drmanac, Snezana
> APPLICANT: Lebat, Ivan
> APPLICANT: Leshtkowitz, Dena
> APPLICANT: Kita, David
> APPLICANT: Garcia, Veronica
> APPLICANT: Jones, Lee William
> APPLICANT: Stache-Crain, Birgit
> TITLE OF INVENTION: Human Genes and
> FILE REFERENCE: 1624.002
> CURRENT APPLICATION NUMBER: US/09/80
> CURRENT FILING DATE: 2001-03-09
> PRIOR APPLICATION NUMBER: 60/188,609
> PRIOR FILING DATE: 2000-03-09
> NUMBER OF SEQ ID NOS: 2396
> SOFTWARE: FastSeq for Windows Version
> SEQ ID NO 2328
> LENGTH: 314

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; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-803-719-2328

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Alignment Scores:		
Pred. NO.:	2e-44	314
Score:	466.00	90
Percent Similarity:	90.91%	Conservative: 0
Best Local Similarity:	90.91%	Mismatches: 9
Query Match:	35.09%	Indels: 0
DB:	11	Gaps: 0

US-09-864-711-15 (1-255) x US-09-803-719-2328 (1-314)

	QY	AlaLeuValIadluilleleThrThrLeuLeuAlaLeuAlaValCysMetGlyAla	170
	Db		
151	3	GCGTGGTGCAAGATCATCTGCACACGCTGCGCCGTGATGCATGGGTGCC	62
	QY	IleAsnGluLysThrLysGlyProLeuAlaProPheSerIleGlyPheAlaThrVal	190
	Db		
171	63	ATCAATGAGAAGACAAGAGCCCTCTGGCCCCGTCTTCATCGGCTTGCCTGCACCGTG	122
	QY	AspIleLeuAlaGlyGlyProValSerGlyGlyCysMetAsnProAlaArgAlaPheGly	210
	Db		
191	123	GATATCTCGGCTGGGGGCCCTGTGTCFCTGGAGGCTGCATGAATTCCGCCCGCTGCTTTTGG	182
	QY	ProAlaValAlaAlaAsnHisTrpAsnPheHisTrpIleTyrrTripleuGlyProLeuLeu	230
	Db		
211	183	CCTGCGGGTGGTGGCAACCACATGGAACTTCCATGTGACTACTGGCTGGGCCCATCTCTG	242
	QY	AlaGlyLeuLeuValGlyLeuLeuIleArgCysPheIleGlyAspGlyLysThrArg	249
	Db		
231	243	ACITGGCCGTGTGTGCACTGCTCATATGCTGCTTAATGTCACACACCGGAGAAATTCGG	299

Search completed: October 15, 2003, 19:14:12  
Job time : 227 secs

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run On: October 15, 2003, 16:09:56 ; Search time 58 Seconds  
(without alignments)

1940.564 Million cell updates/sec

Title: US-09-864-711-15

Perfect score: 255

Sequence: 1 MCPFERGDKAREPSVGRW.....GLLRCTGCTGKTRILIKAR 255

Scoring table:

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Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 569978 seqs, 220691566 residues

Word size: 1

Total number of hits satisfying chosen parameters: 1135299

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdd  
-LIST=45 -DOCALIGN=200 -THR.SCORE=quality -THR.MIN=1 -ALIGN=15 -MODE=LOCAL  
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Database :

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2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/2/ina/PCTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Query Match	Score	Length	DB ID	Description
1	255	100.0	1312	4	US-09-610-906-5
2	255	100.0	1354	4	US-09-610-906-2
3	28	11.0	233	4	US-09-610-906-3
4	25	9.8	274	4	US-09-610-906-4
5	20	7.8	325	4	US-09-610-906-10
6	15	5.9	96	4	US-09-610-906-11
7	15	5.9	159	4	US-09-610-906-9
8	14	5.5	620	4	US-09-610-906-7
9	12	4.7	279	4	US-09-610-906-8
10	11	4.3	699	4	US-09-328-352-2119
c 11	9	3.5	59065	4	US-09-813-817-3
c 12	9	3.5	59065	4	US-09-978-197-3

c 13	8	3.1	243	4	US-09-252-991A-16445
c 14	8	3.1	562	4	US-09-610-906-6
15	8	3.1	595	3	US-09-376-531-63
16	8	3.1	909	4	US-09-252-991A-4957
c 17	8	3.1	1332	4	US-09-252-991A-4992
18	8	3.1	1480	4	US-09-142-569-1
c 19	8	3.1	1771	3	US-08-818-112-13
c 20	8	3.1	1771	4	US-08-818-111-13
c 21	8	3.1	1771	4	US-09-056-556-13
c 22	8	3.1	1771	4	US-09-072-596-13
23	8	3.1	1908	4	US-09-252-991A-4943
24	8	3.1	2481	1	US-08-467-568-1
25	8	3.1	2481	1	US-09-030-582-1
26	8	3.1	2481	5	PCT-US94-09051-1
c 27	8	3.1	2780	4	US-09-620-312D-358
c 28	8	3.1	7096	4	US-09-221-017B-373
c 29	8	3.1	42988	4	US-08-311-731A-128
c 30	8	3.1	4403765	3	US-09-103-840A-2
c 31	8	3.1	4403765	3	US-09-103-840A-2
c 32	8	3.1	4411529	3	US-09-103-840A-1
c 33	8	3.1	4411529	3	US-09-103-840A-1
c 34	7	2.7	100	1	US-08-145-705A-2
c 35	7	2.7	210	4	US-09-328-352-1593
c 36	7	2.7	247	4	US-09-016-434-282
c 37	7	2.7	284	4	US-09-313-294A-1021
c 38	7	2.7	305	4	US-09-313-294A-2980
c 39	7	2.7	388	4	US-09-250-609-78
c 40	7	2.7	388	4	US-09-250-611-78
c 41	7	2.7	410	4	US-09-684-385-5
c 42	7	2.7	411	4	US-09-252-991A-4813
c 43	7	2.7	418	3	US-08-444-818-15
44	7	2.7	461	4	US-09-439-313-324
45	7	2.7	461	4	US-09-352-616A-324

#### ALIGNMENTS

RESULT 1

US-09-610-906-5  
; Sequence 5, Application US/09610906  
; Patent No. 6566066  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkmueth, Wayne  
; APPLICANT: Klinger, Tod M.  
; TITLE OF INVENTION: AQUAFORIN-8 VARIANT  
; FILE REFERENCE: PC-0012 CIP  
; CURRENT APPLICATION NUMBER: US/09/610,906  
; CURRENT FILING DATE: 2000-07-06  
; PRIOR APPLICATION NUMBER: 09/226,994  
; PRIOR FILING DATE: 1999-01-07  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PERL Program  
; SEQ ID NO 5  
; LENGTH: 1312  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. 6566066 1804734CBI  
; PUBLICATION INFORMATION:  
US-09-610-906-5

Alignment Scores:  
Pred. No.: 7.4e-238  
Score: 255.00  
Percent Similarity: 100.00%  
Best Local Similarity: 100.00%  
Query Match: 100.00%  
DB: 4  
Length: 1312  
Matches: 255  
Conservative: 0  
Mismatches: 0  
Indels: 0  
Gaps: 0

US-09-864-711-15 (1-255) x US-09-610-906-5 (1-1312)

QY	1	MetCysGluProGluPheGlyAsnAspIysAlaArgGluProSerValGlyGlyArgTrp	20
DB	111	ATGTTGAGCGCTCAATTTGGCAATGACAAGGCCAGGAGCCGAGCGTGGGTGGCAGGTGG	170
QY	21	ArgValSerTrpTrpGluuArgPheValGlnProCysLeuValGluLeuLeuGlySerAla	40
DB	171	CGAGTGTCTTGGTGTACAGCGTTTGTGCACCAATGCTGGTCGAACTCGTGGGCTCTGCT	230
QY	41	LeuPheIlePheIleGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu	60
DB	231	CTCTTCATCTTCATCGGTTGCTCGGTGCCTGAGCAATGGAGCGACACTGGGCTGCTG	290
QY	61	GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyIAsnIle	80
DB	291	CAGCGCGCCCTGGCCACGGGCTGGCTTTGGGCTCGTGAATGCCACGCTGGGGAATTC	350
QY	81	SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyGlyLeuAsn	100
DB	351	AGTGTGGACACTCAACCTCGGCTGTCCCTGGCAGCCATGCTGATCGGAGGCGCTCAAC	410
QY	101	LeuValMetLeuLeuProTrpTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAla	120
DB	411	CTGGTGANGCTCTCCCGTACTGGGTCTCAGCTGCTCGGGGGATGCTCGGGCTGGCC	470
QY	121	LeuAlaIysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal	140
DB	471	TTGGCCAAAGCGGTGAGTCTCTCAGGAGAGGTTCTTGGAAATGCATCTGGGGCGGCTTTG	530
QY	141	ThrValGlnGluGlnGlyGlnValAlaGlyAlaValAlaGluIleIleLeuThrThr	160
DB	531	KCATGTCCAGAGCAGGGGCGAGTGGCAGGCGCTGTGTGCAGAGATCATCTGCACGACG	590
QY	161	LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrLysGlyProLeuAla	180
DB	591	CTGTGGCCCTGGCTGTATGCATGGGTGCCATGCCATCAATGAGAGACAAAGGCGCCTCTG	650
QY	181	ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGly	200
DB	651	CGGTCTCCATCGGCTTTGCCCTCACCGTGGATATCTGTGCTGGGGGCCCTTGTTGTC	710
QY	201	GlyCysMetAsnProAlaArgAlaPheGlyProAlaValAlaAlaAsnHisTrpAsnPhe	220
DB	711	GGCTGCATGATCCCGCCGCTGCTTTTGGACCTCGGTGGCTGTGGCCAAACCACTGGA	770
QY	221	HisTrpIleTrpTrpLeuGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeuLeuArg	240
DB	771	CACGTGAATCTACGTGGGCGCCATCTCTGGCTGGGCTGCTGTGTGGACTGCTCATTTAG	830
QY	241	CysPheIleGlyAspGlyLysThrArgLeuIleLeuLysAlaArg	255
DB	831	TGCTTCATGTGAGATGGGAAGACCGGCTCATCTCTGAAGCTCGG	875

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RESULT 2
US-09-610-906-2
    ? Sequence 2, Application US/09610906
    ? Patent No. 6566066
    ? GENERAL INFORMATION:
    ? APPLICANT: Walker, Michael G.
    ? APPLICANT: Volkmut, Wayne
    ? APPLICANT: Klinger, Tod M
    ? TITLE OF INVENTION: AQUAPORIN-8 VARIANT
    ? FILE REFERENCE: PC-0012 CIP
    ? CURRENT APPLICATION NUMBER: US/09/610,906
    ? CURRENT FILING DATE: 2000-07-06
    ? PRIOR APPLICATION NUMBER: 09/226,994
    ? PRIOR FILING DATE: 1999-01-07
    ? NUMBER OF SEQ ID NOS: 12
    ? SOFTWARE: PERL Program
    ? SEQ ID NO 2
    ? LENGTH: 1354
    ? TYPE: DNA
    ? ORGANISM: Homo sapiens
    ? FEATURE:

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; NAME/key: misc_feature
; OTHER INFORMATION: Incyte ID No. 6566066 2774542CB1
; PUBLICATION INFORMATION:
US-09-610-906-2

Alignment Scores:
Pred. No.:      7,63e-238      Length:      1354
Score:          255.00         Matches:    255
Percent Similarity: 100.00%     Conservative: 0
Best Local Similarity: 100.00%   Mismatches: 0
Query Match:      100.00%       Indels:    0
DB:              4             Gaps:     0

US-09-864-711-15 (1-255) x US-09-610-906-2 (1-1354)

QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyGlyArgTrrp 20
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 148 ATGTGTAGCCCTGAATTTGGCAATGACAAAGGCCAGGAGCGACGTCGTGGGTGGCAGGTGG 207
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 21 ArgValSerTrpTyrgluArgPheValGlnProCysLeuValGlnLeuLeuGlySerAla 40
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 208 CGAGTGTCCTCGTACGAAGGTTTTGTGCACCCATGTCGTGGTGGTGGTGGTGGTGGTGGT 267
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 41 LeuPheIlePheIleGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 268 CTCTTCATCTTCATCGGGTGCCTGTCGGTCAATTGAGAATGGACGACACTGGGCTGCTGTG 327
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrIleuGlyAsnIle 80
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 328 CAGCCGGGCGCTGGCCACCAGGGGTGGCTTTGGGCTCGTAGTGCCACGCTGGGGGAATTC 387
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyGlyLeuAsn 100
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 388 AGTGTGTGACACTTCAACCCCTGGGTGTCCCTGGCACCATGCTGATCGAGAGCCCTCAAC 447
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 101 LeuValMetLeuLeuProTyrrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAla 120
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 448 CTGGTGATGTCCTCCCGACTGGGTCTCAACAGCTCTCGGGGGGATGTCTGGGGGTGCC 507
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 121 LeuAlaLysAlaValSerProGluLysArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 508 TTGGCCAGGGCGGTGAGTCTCTGAGGAGAGGTCTTGGGAATGCATCTGGGGGGGCTTTGTG 567
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 141 ThrValGlnGlnGlnGlnValAlaGlyAlaLeuValAlaGluIleIleLeuThrThr 160
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 568 ACAGTCCAGGACGAGGGGAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCTCTGACGAGC 627
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrLysGlyProLeuAla 180
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 628 CTCTTGCCCTGGCTGTATGTCATGGGTGCCATCATGTAGAAGACAAAGGGCCCTCTGGCC 687
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyLysProValSerGly 200
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 688 CCGTTCTCCATCGGCTTTGGCCCTCACCGTGATATCCTGGCTGGGGGCCCTGTGTCTGGA 747
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValValAlaAsnHisTrpAsnPhe 220
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 748 GGCTGCATCAATCCCCTGGCTGTCTTTGGACCTSCGGTGGTGGCCACACCACTGGAACTTC 807
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 221 HisTrpIleTyrrpLeuGlyProLeuLeuAlaGlyLeuValGlyLeuLeuIleArg 240
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 808 CACTGGATCTACTGGCTGGGCCCACTCTCGTGGCTGGCCCTGTTGTGGACTGTCTATTAGG 867
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 241 CysPheIleGlyAspGlyLysThrArgLeuIleLeuLysAlaArg 255
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 868 TGCTTCATTGGAGATGGGAAGACCGGCTCATCTCATCGAGGCTCGG 912
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 3
US-09-610-906-3
; Sequence 3, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
```



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; APPLICANT: Volkmut, Wayne
; APPLICANT: Klinger, Tod M.
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/09/610,906
; CURRENT FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 3
; LENGTH: 233
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6566066 2774542H1
; PUBLICATION INFORMATION:
US-09-610-906-3

Alignment Scores:
Pred. No.: 1.13e-18 Length: 233
Score: 28.00 Matches: 28
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.98% Indels: 0
DB: 4 Gaps: 0

US-09-864-711-15 (1-255) x US-09-610-906-3 (1-233)
Qy 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyArgTrp 20
Db 148 ATGTGTGAGCCTGAATTTGGCAATGACAAAGCCAGGAGCGGCTGGTGGCAGGTGG 207
Qy 21 ArgValSerTrpTyrGluArgPhe 28
Db 208 CGAGTGCTGCTGACGACGCTTT 231

RESULT 4
US-09-610-906-4
; Sequence 4, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
; APPLICANT: Volkmut, Wayne
; APPLICANT: Klinger, Tod M.
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/09/610,906
; CURRENT FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 4
; LENGTH: 274
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6566066 3834902H1
; PUBLICATION INFORMATION:
US-09-610-906-4

Alignment Scores:
Pred. No.: 1.06e-15 Length: 274
Score: 25.00 Matches: 25
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 9.80% Indels: 0

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DB: 4 Gaps: 0

US-09-864-711-15 (1-255) x US-09-610-906-4 (1-274)
Qy 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyArgTrp 20
Db 134 ATGTGTGAGCCTGAATTTGGCAATGACAAAGCCAGGAGCGGCTGGTGGCAGGTGG 193
Qy 21 ArgValSerTrpTyr 25
Db 194 CGAGTGCTGCTGCTGAC 208

RESULT 5
US-09-610-906-10
; Sequence 10, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmut, Wayne
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/09/610,906
; CURRENT FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 10
; LENGTH: 325
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6566066 701652485H1
; PUBLICATION INFORMATION:
US-09-610-906-10

Alignment Scores:
Pred. No.: 8.76e-11 Length: 325
Score: 20.00 Matches: 20
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 7.84% Indels: 0
DB: 4 Gaps: 0

US-09-864-711-15 (1-255) x US-09-610-906-10 (1-325)
Qy 34 ValGluLeuLeuGlySerAlaLeuPheIlePheIleGlyCysLeuSerValIleGluAsn 53
Db 175 GTGGAACTTTTGGGCTCCGCTCTCTTCATCTTCACTTGGGTGCTCATCGGACAC 234

RESULT 6
US-09-610-906-11
; Sequence 11, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmut, Wayne
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/09/610,906
; CURRENT FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 11
; LENGTH: 96
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:

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; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6566066 700938259H1
; PUBLICATION INFORMATION:
US-09-610-906-11

Alignment Scores:
Pred. No.: 1.86e-06 Length: 96
Score: 15.00 Matches: 15
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 5.88% Indels: 0
DB: 4 Gaps: 0

US-09-864-711-15 (1-255) x US-09-610-906-11 (1-96)
QY 125 ValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPhe 139
Db 25 GTGAGTCCAGAGAAAGGTTCTGGAATGCGTCTGGGGCAGCCTTT 69

RESULT 7
US-09-610-906-9
; Sequence 9, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmut, Wayne
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/09/610,906
; PRIOR FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 9
; LENGTH: 159
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6566066 701336587H1
; PUBLICATION INFORMATION:
US-09-610-906-9

Alignment Scores:
Pred. No.: 3.05e-06 Length: 159
Score: 15.00 Matches: 15
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 5.88% Indels: 0
DB: 4 Gaps: 0

US-09-864-711-15 (1-255) x US-09-610-906-9 (1-159)
QY 125 ValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPhe 139
Db 26 GTGAGTCCAGAGAAAGGTTCTGGAATGCGTCTGGGGCAGCCTTT 70

RESULT 8
US-09-610-906-7
; Sequence 7, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmut, Wayne
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/09/610,906
; PRIOR FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; 
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; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 620
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6566066 701887401H1
; PUBLICATION INFORMATION:
US-09-610-906-7

Alignment Scores:
Pred. No.: 0.000107 Length: 620
Score: 14.00 Matches: 14
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 5.49% Indels: 0
DB: 4 Gaps: 0

US-09-864-711-15 (1-255) x US-09-610-906-7 (1-620)
QY 220 PheHisTrpIleTyrTrpLeuGlyProLeuLeuAlaGlyLeu 233
Db 282 TTCATTTGGATCTACTGGGTGGGCCCACTCTGCTGGCCTC 323

RESULT 9
US-09-610-906-8
; Sequence 8, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmut, Wayne
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/09/610,906
; PRIOR FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 8
; LENGTH: 279
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6566066 701624411H1
; PUBLICATION INFORMATION:
US-09-610-906-8

Alignment Scores:
Pred. No.: 0.00425 Length: 279
Score: 12.00 Matches: 12
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 4.71% Indels: 0
DB: 4 Gaps: 0

US-09-864-711-15 (1-255) x US-09-610-906-8 (1-279)
QY 128 GluGluArgPheTrpAsnAlaSerGlyAlaAlaPhe 139
Db 4 GAGGAAGGTTCTGGAATGCGTCTGGGGCAGCCTTT 39

RESULT 10
US-09-328-352-2119
; Sequence 2119, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER

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; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 2119
; TYPE: DNA
; ORGANISM: Human
US-09-978-197-3

Alignment Scores:
Pred. No.: 631          Length: 59065
Score: 9.00           Matches: 9
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 3.53%      Indels: 0
DB: 4                  Gaps: 0

US-09-864-711-15 (1-255) x US-09-328-352-2119 (1-699)
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Db 175 ATCTCAGTGGACATTTCAATCCCGCGTAAGT 207

RESULT 11
US-09-813-817-3/c
; Sequence 3, Application US/09813817
; Patent No. 6340583
; GENERAL INFORMATION:
; APPLICANT: YAN, Chunhua et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001178
; CURRENT APPLICATION NUMBER: US/09/813,817
; CURRENT FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 59065
; TYPE: DNA
; ORGANISM: Human
US-09-813-817-3

Alignment Scores:
Pred. No.: 631          Length: 59065
Score: 9.00           Matches: 9
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 3.53%      Indels: 0
DB: 4                  Gaps: 0

US-09-864-711-15 (1-255) x US-09-813-817-3 (1-59065)
QY 229 LeuLeuAlagLyLeuLeuValGlyLeu 237
   |||||
Db 45847 CTGCTGCAGGTGTGTGGTGGAATC 45821

RESULT 12
US-09-978-197-3/c
; Sequence 3, Application US/09978197
; Patent No. 6403353
; GENERAL INFORMATION:
; APPLICANT: YAN, Chunhua et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001178DIV
; CURRENT APPLICATION NUMBER: US/09/978,197
; CURRENT FILING DATE: 2001-10-17
; PRIOR APPLICATION NUMBER: 09/813,817
; PRIOR FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 12

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; SOFTWARE: PERL Program
; SEQ ID NO 6
; LENGTH: 562
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6566066 227165F1
; NAME/KEY: unsure
; LOCATION: 525..550
; OTHER INFORMATION: a, t, c, g, or other
; PUBLICATION INFORMATION:
US-09-610-906-6

Alignment Scores:
Pred. No.: 63 Length: 562
Score: 8.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 3.14% Indels: 0
DB: 4 Gaps: 0

US-09-864-711-15 (1-255) x US-09-610-906-6 (1-562)

QY 246 GlyYsThrArgLeuLeuLys 253

Search completed: October 15, 2003, 17:18:28
Job time : 88 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: October 15, 2003, 17:17:27 ; Search time 221 Seconds

(without alignments)  
2994.013 Million cell updates/sec

Title: US-09-864-711-15

Perfect score: 255

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Delop 6.0 , Delext 7.0

Searched: 1731049 seqs, 1297405648 residues

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-TRANS=human40.cdi -LIST=45 -DOALIGN=200 -THR\_SCORE=quality -THR\_MIN=1  
-ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0  
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11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq.\*  
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13: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq.\*  
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16: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*  
17: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	255	100.0	1312	10	US-09-981-353-62 Sequence 62, Appl

2	255	100.0	1312	12	US-10-396-943-5	Sequence 5, Appl
3	255	100.0	1354	9	US-09-864-711-8	Sequence 8, Appl
4	255	100.0	1354	12	US-10-396-943-2	Sequence 2, Appl
5	254	99.6	1388	14	US-10-023-896-11	Sequence 11, Appl
6	254	99.6	1410	9	US-09-925-299-67	Sequence 67, Appl
7	254	99.6	1410	11	US-09-925-299-67	Sequence 67, Appl
8	254	99.6	1410	14	US-10-023-896-40	Sequence 40, Appl
9	254	99.6	1410	14	US-10-106-698-245	Sequence 245, Appl
10	254	99.6	1712	14	US-10-106-698-1986	Sequence 1986, Appl
11	253	99.2	1314	14	US-10-216-408-16	Sequence 16, Appl
12	229	89.8	1324	14	US-10-158-646-49	Sequence 49, Appl
13	85	33.3	257	14	US-10-216-408-4	Sequence 4, Appl
14	81	31.8	244	14	US-10-216-408-3	Sequence 3, Appl
15	81	31.8	244	14	US-10-216-408-6	Sequence 6, Appl
16	79	31.0	321	11	US-09-803-719-2329	Sequence 2329, Appl
17	74	29.0	224	14	US-10-216-408-5	Sequence 5, Appl
18	74	29.0	318	11	US-09-803-719-2361	Sequence 2361, Appl
19	68	26.7	321	11	US-09-803-719-2362	Sequence 2362, Appl
20	58	22.7	317	11	US-09-803-719-2269	Sequence 2269, Appl
21	54	21.2	314	11	US-09-803-719-2328	Sequence 2328, Appl
22	50	19.6	201	14	US-10-216-408-8	Sequence 8, Appl
23	47	18.4	269	14	US-10-216-408-7	Sequence 7, Appl
24	38	14.9	222	14	US-10-216-408-2	Sequence 2, Appl
25	36	14.1	281	14	US-10-216-408-9	Sequence 9, Appl
26	28	11.0	233	12	US-10-396-943-3	Sequence 3, Appl
27	25	9.8	274	12	US-10-396-943-4	Sequence 4, Appl
28	20	7.8	325	12	US-10-396-943-10	Sequence 10, Appl
29	19	7.5	256	14	US-10-216-408-10	Sequence 10, Appl
30	15	5.9	96	12	US-10-396-943-11	Sequence 11, Appl
31	15	5.9	159	12	US-10-396-943-9	Sequence 9, Appl
32	15	5.9	175	14	US-10-216-408-1	Sequence 1, Appl
33	14	5.5	620	12	US-10-396-943-7	Sequence 7, Appl
34	12	4.7	257	14	US-10-216-408-11	Sequence 11, Appl
35	12	4.7	279	12	US-10-396-943-8	Sequence 8, Appl
36	10	3.9	282	14	US-10-216-408-12	Sequence 12, Appl
37	10	3.9	405	11	US-09-989-442-24	Sequence 24, Appl
38	10	3.9	405	11	US-09-989-442-70	Sequence 70, Appl
39	10	3.9	690	10	US-09-887-576-816	Sequence 816, Appl
40	9	3.5	448	11	US-09-918-995-29250	Sequence 29250, A
C 41	9	3.5	487	11	US-09-918-995-24188	Sequence 24188, A
C 42	9	3.5	618	10	US-09-974-300-8371	Sequence 8371, A
C 43	9	3.5	1009	9	US-09-867-550-1869	Sequence 1869, A
C 44	9	3.5	1801	14	US-10-077-583-7	Sequence 7, Appl
C 45	9	3.5	2029	14	US-10-077-583-1	Sequence 1, Appl

#### ALIGNMENTS

RESULT 1  
US-09-981-353-62  
; Sequence 62, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981.353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 62  
; LENGTH: 1312  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1804/734CB1  
US-09-981-353-62

Alignment Scores: 2.31e-245 Length: 1312  
Pred. No.: 255.00 Matches: 255  
Score:

Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 10 Gaps: 0

US-09-864-711-15 (1-255) x US-09-981-353-62 (1-1312)

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DB 111 ATGTGTGAGCCCTGAATTTGGCAATGACAAGCCAGGAGCGGAGCGTGGGTGGCAGGTGG 170
QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGluLeuLeuGlySerAla 40
DB 171 CGAGTGTCTGTGTACGACGGTTGTGACGCCATGCTGTGCTGCACTGTCTGGGCTCTGCT 230
QY 41 LeuPheLePheLeGlyCysLeuSerValIleGlnAsnGlyThrAspThrGlyLeuLeu 60
DB 231 CTCTTCATCTTCATCGGGTGCCTGTGCGTCAATGAGAATGGGACGACACCTGAGGTGG 290
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80
DB 291 CAGCGGGCCCTGGCCACGGGCTGGCTTTGGGGCTGCTGATGGCAGCTGGGGAATATC 350
QY 81 SerGlyClyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAsn 100
DB 351 AGTGGTGGACACTTCAACCCCTGCGGTGCTGCGAGGAGGTTCTGGAATGATCGGAGCG 410
QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAla 120
DB 411 CTGGTGTATGCTCTCCCGTACTGGGTCTCACAGTGTCTGCGGGGAGTCTCGGGGCTGCC 470
QY 121 LeuAlaLysAlaValCysMetGlyAlaIleAsnGlyLysThrGlyProLeuAla 180
DB 591 CTGCTGGCCCTGGCTGTATGATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 650
QY 181 PropheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGly 200
DB 651 CCGTTCATCGAGATGGGAGACGCCCTCATCTGATCGGAGGCTCGG 710
QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValAlaAlaAsnHisTrpAsnPhe 220
DB 711 GAGTGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 770
QY 241 CysPheIleGlyAspGlyLysThrArgLeuIleLeuLysAlaArg 255
DB 831 TGCTTCATGGAGATGGGAGACGCCCTCATCTGATCGGAGGCTCGG 875
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## RESULT 2

US-10-396-943-5  
; Sequence 5, Application US/10396943  
; Publication No. US20030158085A1  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkumth, Wayne  
; APPLICANT: Klingner, Tod M.  
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT  
; FILE REFERENCE: PC-0012 CIP  
; CURRENT APPLICATION NUMBER: US/10/396,943  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US/09/610,906  
; PRIOR FILING DATE: 2000-07-06

; PRIOR APPLICATION NUMBER: 09/226,994  
; PRIOR FILING DATE: 1999-01-07  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PERL Program  
; SEQ ID NO 5  
; LENGTH: 1312  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20030158085A1 1804734CB1  
; PUBLICATION INFORMATION:  
US-10-396-943-5

## Alignment Scores:

Pred. No.:	2,31e-245	Length:	1312
Score:	255.00	Matches:	255
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	12	Gaps:	0

US-09-864-711-15 (1-255) x US-10-396-943-5 (1-1312)

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QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGluLeuLeuGlySerAla 40
DB 171 CGAGTGTCTGTGTACGACGGTTGTGACGCCATGCTGTGCTGCACTGTCTGGGCTCTGCT 230
QY 41 LeuPheLePheLeGlyCysLeuSerValIleGlnAsnGlyThrAspThrGlyLeuLeu 60
DB 231 CTCTTCATCTTCATCGGGTGCCTGTGCGTCAATGAGAATGGGACGACACCTGAGGTGG 290
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80
DB 291 CAGCGGGCCCTGGCCACGGGCTGGCTTTGGGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 350
QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyGlyLeuAsn 100
DB 351 AGTGGTGGACACTTCAACCCCTGCGGTGCTGCGAGGAGGTTCTGGAATGATCGGAGGCTCAAC 410
QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAla 120
DB 411 CTGGTGTATGCTCTCCCGTACTGGGTCTCACAGTGTCTGCGGGGAGTCTCGGGGCTGCC 470
QY 121 LeuAlaLysAlaValSerProGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140
DB 471 TTGGGCCAAGGGGTGAGTCTCTGAGGAGAGGTCTGGGATGCACTCGGGGCGGCTTTGGTG 530
QY 141 ThrValGlnGluGlnValValAlaGlyAlaLeuValAlaGluIleLeuThr 160
DB 531 ACAGTCCAGGAGCAGGCGGAGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 590
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGlyLysThrGlyProLeuAla 180
DB 591 CTGCTGGCCCTGGCTGTATGATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 650
QY 181 PropheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGly 200
DB 651 CCGTTCATCGAGATGGGAGACGCCCTCATCTGATCGGAGGCTCGG 710
QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValAlaAlaAsnHisTrpAsnPhe 220
DB 711 GAGTGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 770
QY 221 HistTrpIleTyrTrpLeuGlyProLeuLeuAlaGlyLeuValGlyLeuLeuLeuLeu 240
DB 771 CACTGGATCTACTGGCTGGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 830
QY 241 CysPheIleGlyAspGlyLysThrArgLeuIleLeuLysAlaArg 255
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Db 831 TCGTTCATGGAGATGGGAGACCCGCTCATCTGAGGCTCGG 875  
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## RESULT 3

US-09-864-711-8  
 ; Sequence 8, Application US/09864711  
 ; Patent No. US20020077309A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Walker, Michael G.  
 ; APPLICANT: Volkumuth, Wayne  
 ; APPLICANT: Klingler, Tod M.  
 ; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS  
 ; FILE REFERENCE: PB-0008-1 CIP  
 ; CURRENT APPLICATION NUMBER: US/09/864,711  
 ; CURRENT FILING DATE: 2001-05-23  
 ; NUMBER OF SEQ ID NOS: 15  
 ; SOFTWARE: PERL Program  
 ; SEQ ID NO 8  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; OTHER INFORMATION: 2774542CB1  
 US-09-864-711-8

Alignment Scores:  
 Pred. No.: 2,37e-245 Length: 1354  
 Score: 255.00 Matches: 255  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 Gaps: 0

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 Db 148 ATGTGTGAGCCTGAATTGGCAATGACAGCCAGGAGCGGAGCGGTGGCAGGTGG 207  
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 QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGluLeuGlySerAla 40  
 |||  
 Db 208 CGAGTGTCTGTACGACGAGTTTGTGACGCATGTCTGTGCAACTGCTGGGCTCTGCT 267  
 |||  
 QY 41 LeuPheLePheLeGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60  
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 Db 268 CTCTTCATCTTCATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 327  
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 QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80  
 |||  
 Db 328 CAGCCGGCCCTGGCCACGCGGTGGCTTGGGGCTGCTGATTCGCCACGCTGGGGATATC 387  
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 QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAsn 100  
 |||  
 Db 388 AGTGTGGACACTTCAACCTGCGGTGCTCCCTGGCAGCCATGCTGATCGAGGCTCAAC 447  
 |||  
 QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyValMetLeuGlyAlaAla 120  
 |||  
 Db 448 CTGGTGATGCTCTCCGCTACTGGGTCTACAGCTGCTCGGGGGGATGCTCGGGGCTGCC 507  
 |||  
 QY 121 LeuAlaLysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140  
 |||  
 Db 508 TTGGCCAGAGCGGTGATCTCTGAGGAGGTCTTGGATGATCTGGGCGGCTTTGTG 567  
 |||  
 QY 141 ThrValGlnGluGlnGlyGlnValAlaGlyAlaLeuValAlaGluIleLeuThrThr 160  
 |||  
 Db 568 ACAGTCCAGGACGAGGCGAGGTGGCAGGGCGTTGGTGGCAGAGATCATCTCGACGACG 627  
 |||  
 QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrLysGlyProLeuAla 180  
 |||  
 Db 628 CTCTGGCCCTGGCTGATGATGGGTGCTGATGATGATGATGATGATGATGATGATGATGAT 687  
 |||  
 QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGly 200  
 |||

Db 688 CCCTTCCTCCATCGGCTTTGGCGTCAACGCTGATATCTTGGCTGGGGCCCTGTGTCTGA 747  
 |||  
 QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValAlaAsnHisTrpAsnPhe 220  
 |||  
 Db 748 GGCTGCATGAATCCCGCCGCTGCTTTTGGACCTGGGTGGTGGCAACCACTGGAACCTTC 807  
 |||  
 QY 221 HisTrpIleTyrTrpLeuGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeuIleArg 240  
 |||  
 Db 808 CACTGGATCTACTGCTGGCCCACTCTCTGGCGGCTGCTGTGTGACTGCTCATTAGG 867  
 |||  
 QY 241 CysPheIleGlyAspGlyLysThrArgLeuIleLeuLysAlaArg 255  
 |||  
 Db 868 TGTTCATTTGGAGATGGGAGACCCGCTCATCTGAAGGCTCGG 912  
 |||

## RESULT 4

US-10-396-943-2  
 ; Sequence 2, Application US/10396943  
 ; Publication No. US20030158085A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Walker, Michael G.  
 ; APPLICANT: Volkumuth, Wayne  
 ; APPLICANT: Klingler, Tod M.  
 ; TITLE OF INVENTION: AQUAPORIN-8 VARIANT  
 ; FILE REFERENCE: PC-0012 CIP  
 ; CURRENT APPLICATION NUMBER: US/10/396,943  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US/09/610,906  
 ; PRIOR FILING DATE: 2000-07-06  
 ; PRIOR APPLICATION NUMBER: 09/226,994  
 ; PRIOR FILING DATE: 1999-01-07  
 ; NUMBER OF SEQ ID NOS: 12  
 ; SOFTWARE: PERL Program  
 ; SEQ ID NO 2  
 ; LENGTH: 1354  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; OTHER INFORMATION: Incyte ID No. US20030158085A1 2774542CB1  
 ; PUBLICATION INFORMATION:  
 US-10-396-943-2

Alignment Scores:  
 Pred. No.: 2,37e-245 Length: 1354  
 Score: 255.00 Matches: 255  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 Gaps: 0

US-09-864-711-15 (1-255) x US-10-396-943-2 (1-1354)

QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyArgTrp 20  
 |||  
 Db 148 ATGTGTGAGCCTGAATTGGCAATGACAGCCAGGAGCGGAGCGGTGGCAGGTGG 207  
 |||  
 QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGluLeuGlySerAla 40  
 |||  
 Db 208 CGAGTGTCTGTACGACGAGTTTGTGACGCATGTCTGTGCAACTGCTGGGCTCTGCT 267  
 |||  
 QY 41 LeuPheLePheLeGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60  
 |||  
 Db 268 CTCTTCATCTTCATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 327  
 |||  
 QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80  
 |||  
 Db 328 CAGCCGGCCCTGGCCACGCGGTGGCTTGGGGCTGCTGATTCGCCACGCTGGGGATATC 387  
 |||  
 QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAsn 100  
 |||  
 Db 388 AGTGTGGACACTTCAACCTGCGGTGCTCCCTGGCAGCCATGCTGATCGAGGCTCAAC 447  
 |||  
 QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyValMetLeuGlyAlaAla 120  
 |||

Db 448 CTGGTGAATGCTCTCCCGCTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCGGGGCTGCC 507  
QY 121 LeuAlaLysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140  
Db 508 TTGGCCAGGCGGTGAGTCTCAGGAGAGAGTTCCTGAATGCACTCGGGGGCCCTTTGTG 567  
QY 141 ThrValGlnGlnGlnGlnValAlaGlyAlaLeuValAlaGluLeuLeuThrThr 160  
Db 568 ACACTCAGAGCAGGCGAGGTGGCAGGGGCGTGTGGTGGCAGAGATCATCTCGACGACG 627  
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrLysGlyProLeuAla 180  
Db 628 CTGCTGCGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 687  
QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyProValSerGly 200  
Db 688 CCGTTCTCATCGGCTTTGGCTGACCGTGGATATCTTGGTGGGGGCGCTGTGTGGA 747  
QY 201 GlyCysMetAsnProAlaAlaGlyPheGlyProAlaValAlaAlaAsnHisTrpAsnPhe 220  
Db 748 GGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 807  
QY 221 HisTrpIleTrpLeuGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeuLeuArg 240  
Db 808 CACTGGATCTACTGGCTGGGCGCCACTCTCGCTGGCTGGCTGGCTGGCTGGCTGGCT 867  
QY 241 CysPheIleGlyAspGlyLysThrArgLeuLeuLeuLysAlaArg 255  
Db 868 TGCTTCATGGAGATGGAGAGACCCGCTCATCTCTGAAGGCTCGG 912

RESULT 5

US-10-023-896-11  
; Sequence 11, Application US/10023896  
; Publication No. US2003002776A1  
; GENERAL INFORMATION:  
; APPLICANT: Victor Roschke  
; TITLE OF INVENTION: 29 Human Cancer Associated Proteins  
; FILE OF INVENTION: PA004F1  
; CURRENT APPLICATION NUMBER: US/10/023,896  
; CURRENT FILING DATE: 2001-12-21  
; PRIOR APPLICATION NUMBER: unassigned  
; PRIOR FILING DATE: 2001-12-21  
; PRIOR APPLICATION NUMBER: PCT/US00/23794  
; PRIOR FILING DATE: 2000-08-30  
; PRIOR APPLICATION NUMBER: 60/152,296  
; PRIOR FILING DATE: 1999-09-03  
; PRIOR APPLICATION NUMBER: 60/158,003  
; PRIOR FILING DATE: 1999-10-06  
; NUMBER OF SEQ ID NOS: 138  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 11  
; LENGTH: 1388  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1388)..(1388)  
; OTHER INFORMATION: n equals a,t,g, or c  
US-10-023-896-11

Alignment Scores:  
Pred. No.: 2,43e-244 Length: 1388  
Score: 254.00 Matches: 254  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 99.61% Indels: 0  
DB: 14 Gaps: 0

US-09-864-711-15 (1-255) x US-10-023-896-11 (1-1388)

QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyLysArgTrp 20  
|||||

Db 128 ARGCTGAGCCTGGAATTTGGCAATGCAAGGCCAGGAGCCAGAGCTGGTGGCAGGTGG 187  
QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGluLeuLeuGlySerAla 40  
Db 188 CGAGTGTCTCTGACGACAGCGTTTGTGCAGCAATGCTGTGTAACCTCTGGGCTCTGCT 247  
QY 41 LeuPheIlePheIleGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60  
Db 248 CTCTTCATCTTCATCGGGTGCCTGTGCGTCAATTGAGATGGACGACACACTGGGCTCTG 307  
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80  
Db 308 CAGCGCGCCCTGGCCACCGGGCTGGCTTTGGGGCTGCTGATTCGCCACCTCGGGGAATC 367  
QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyCysLeuAsn 100  
Db 368 AGTGTGTGACACTTCACCTCGGCTGCTCCCTGGCAGCCATGCTATCGGAGGCTCTCAAC 427  
QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyMetLeuGlyAlaAla 120  
Db 428 CTGGTGATGCTCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCGGGGCTGCC 487  
QY 121 LeuAlaLysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140  
Db 488 TTGGCCAGGCGGTGAGTCTGAGGAGAGGTCTTGGAAATGCACTCTGGGGCGGCTTTGTG 547  
QY 141 ThrValGlnGlnGlnGlnValAlaGlyAlaLeuValAlaGluLeuLeuThrThr 160  
Db 548 ACAGTCCAGGAGCAGGGCAGGTGGCAGGGCTGTGGTGGCAGAGATCATCTCACAGCG 607  
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrLysGlyProLeuAla 180  
Db 608 CTGCTGGCCCTGCTGTATGCTATGGTGCCTCAATGAGAGACAAAGGCGCTCTGGCC 667  
QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyProValSerGly 200  
Db 668 CCGTTCTCATGCGCTTTGCCGTCCACCTGGATATCTGCTGGGGGCGCTGTGTCTGGA 727  
QY 201 GlyCysMetAsnProAlaAlaGlyPheGlyProAlaValAlaAlaAsnHisTrpAsnPhe 220  
Db 728 GGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 787  
QY 221 HisTrpIleTrpLeuGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeuLeuArg 240  
Db 788 CACTGGATCTACTGGTGGGCGCCACTCTGCTGGCTGGCTGGCTGGCTGGCTGGCT 847  
QY 241 CysPheIleGlyAspGlyLysThrArgLeuLeuLeuLysAla 254  
Db 848 TGCTTCATGGAGATGGAGAGACCCGCTCATCTCTGAAGGCT 889

RESULT 6

US-09-925-299-67  
; Sequence 67, Application US/09925299  
; Patent No. US20020055627A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE OF INVENTION: PAL02  
; CURRENT APPLICATION NUMBER: US/09/925,299  
; CURRENT FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: PCT/US00/05883  
; PRIOR FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: 60/124,270  
; PRIOR FILING DATE: 1999-03-12  
; NUMBER OF SEQ ID NOS: 1556  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 67  
; LENGTH: 1410  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-299-67

Alignment Scores:



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Pred. No.: 2,47e-244 Length: 1410
Score: 254.00 Matches: 254
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.61% Indels: 0
DB: 9 Gaps: 0

US-09-864-711-15 (1-255) x US-09-925-299-67 (1-1410)

QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyArgTrrp 20
DB 119 ATGTGTGAGCCTGAATTTGGCAATGACAAAGCCAGGAGCCGAGCGTGGGTGGAGGTGG 178
QY 21 ArgValSerTrrpTyrGluArgPheValGlnProCysLeuValGluLeuLeuGlySerAla 40
DB 179 CGAGTGTCTCGGTACGAGCGGTGTGGTGGAGCCATGCTGGTGGAGTCTGGCTGGCT 238
QY 41 LeuPheLeuPheLeuGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60
DB 239 CTCCTTCATCTTCATCGGGTGCCTGCTCGGTTCATTGAGAAATGGGACGACACTGGCTG 298
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80
DB 299 CAGCGCGCCCTGGGCCACGGGTGGCTTTGGGGCTCGTGAATGCCACGCTGGGGAATATC 358
QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAsn 100
DB 359 AGTGTGGACACTTCAACCTCGGTGTCCTGGCCATGCTGGCAGCCATGCTGGAGGCTCAAC 418
QY 101 LeuValMetLeuLeuProTrrpValSerGlnLeuLeuGlyCysLeuGlyValAlaAla 120
DB 419 CTGGTGTATGCTCTCCGCTACTGGGTCTCACAGTCTCGGGGGGATGCTCGGGGCTGCC 478
QY 121 LeuAlaLysAlaValSerProGluGluArgPheTrrpAsnAlaSerGlyAlaAlaPheVal 140
DB 479 TTGGCCAGAGCGGTGGTGGTGGAGAGGTTCGTGGTGGAGATCATCTCGAGGAGCG 538
QY 141 ThrValGlnGluGlnGlnValAlaGlyAlaLeuValAlaGluLeuLeuThrThr 160
DB 539 ACAGTCCAGAGCGAGGCGAGGTGGAGGGCGCTTGGTGGAGATCATCTCGAGGAGCG 598
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrLysGlyProLeuAla 180
DB 599 CTGGTGGCCCTGGCTGTATGATGATGATGATGATGATGATGATGATGATGATGATG 658
QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyProValSerGly 200
DB 659 CGGTTCCTCATCGGTTCCTCGGTTCCTCGGTTCCTCGGTTCCTCGGTTCCTCGGTTC 718
QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValAlaAlaAsnHisTrrpAsn 220
DB 719 GGCTGCATGAATCCCGCCGCTGCTTTGGACCTGGGCTGGGCTGGGCTGGGCTGGG 778
QY 221 HisTrrpIleTrrpLeuGlyProLeuLeuAlaGlyLeuValGlyLeuLeuLeuArg 240
DB 779 CACTGGATCTACTGGTGGGCGGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 838
QY 241 CysPheIleGlyAspGlyLysThrArgLeuLeuLeuLysAla 254
DB 839 TGCTTCATTTGAGATGGGAGAGCCCGCTTCATCTCGTGAAGGCT 880
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## RESULT 7

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US-09-925-299-67
; Sequence 67, Application US/09925299
; Publication No. US20030040617A9
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA102
; CURRENT APPLICATION NUMBER: US/09/925,299
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05883
; PRIOR FILING DATE: 2000-03-08
```

```
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1556
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 67
; LENGTH: 1410
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-299-67
```

```
Alignment Scores:
Pred. No.: 2,47e-244 Length: 1410
Score: 254.00 Matches: 254
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.61% Indels: 0
DB: 11 Gaps: 0
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US-09-864-711-15 (1-255) x US-09-925-299-67 (1-1410)

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QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyArgTrrp 20
DB 119 ATGTGTGAGCCTGAATTTGGCAATGACAAAGCCAGGAGCCGAGCGTGGGTGGAGGTGG 178
QY 21 ArgValSerTrrpTyrGluArgPheValGlnProCysLeuValGluLeuLeuGlySerAla 40
DB 179 CGAGTGTCTCGGTACGAGCGGTGTGGTGGAGCCATGCTGGTGGAGTCTGGCTGGCT 238
QY 41 LeuPheIlePheIleGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60
DB 239 CTCCTTCATCTTCATCGGGTGCCTGCTCGGTTCATTGAGAAATGGGACGACACTGGCTG 298
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80
DB 299 CAGCGCGCCCTGGGCCACGGGTGGCTTTGGGGCTCGTGAATGCCACGCTGGGGAATATC 358
QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAsn 100
DB 359 AGTGTGGACACTTCAACCTCGGTGTCCTGGCCATGCTGGCAGCCATGCTGGAGGCTCAAC 418
QY 101 LeuValMetLeuLeuProTrrpValSerGlnLeuLeuGlyCysLeuGlyValAlaAla 120
DB 419 CTGGTGTATGCTCTCCGCTACTGGGTCTCACAGTCTCGGGGGGATGCTCGGGGCTGCC 478
QY 121 LeuAlaLysAlaValSerProGluGluArgPheTrrpAsnAlaSerGlyAlaAlaPheVal 140
DB 479 TTGGCCAGAGCGGTGGTGGTGGAGAGGTTCGTGGTGGAGATCATCTCGAGGAGCG 538
QY 141 ThrValGlnGluGlnGlnValAlaGlyAlaLeuValAlaGluLeuLeuThrThr 160
DB 539 ACAGTCCAGAGCGAGGCGAGGTGGAGGGCGCTTGGTGGAGATCATCTCGAGGAGCG 598
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrLysGlyProLeuAla 180
DB 599 CTGGTGGCCCTGGCTGTATGATGATGATGATGATGATGATGATGATGATGATGATG 658
QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyProValSerGly 200
DB 659 CGGTTCCTCATCGGTTCCTCGGTTCCTCGGTTCCTCGGTTCCTCGGTTCCTCGGTTC 718
QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValAlaAlaAsnHisTrrpAsn 220
DB 719 GGCTGCATGAATCCCGCCGCTGCTTTGGACCTGGGCTGGGCTGGGCTGGGCTGGG 778
QY 221 HisTrrpIleTrrpLeuGlyProLeuLeuAlaGlyLeuValGlyLeuLeuLeuArg 240
DB 779 CACTGGATCTACTGGTGGGCGGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 838
QY 241 CysPheIleGlyAspGlyLysThrArgLeuLeuLeuLysAla 254
DB 839 TGCTTCATTTGAGATGGGAGAGCCCGCTTCATCTCGTGAAGGCT 880
```

RESULT 8



```

Db 479 TTGGCCAAAGCGGTGAGTCTCAGGAGAGTTCTGGAATGCATCTGGGGCGGCTTTGTC 538
QY 141 ThrValGlnGlnGlnGlnValAlaGlyAlaLeuValAlaGluLeuLeuThr 160
Db 539 ACATGTCAGAGCAGGGCGAGGTGGCAGGGCGTTGGTCAGAGATCATCTGACGACG 598
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaLeuLeuLeuLeuLeuLeuLeu 180
Db 599 CTGCTGGCCCTGCTGTATGATGATGGTGCCATCAATGAGAGACAAAGGGCCCTCTGGCC 658
QY 181 ProPheSerLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 200
Db 659 CCGTTCCTCCATCGCTTTCCGCTCAGCGTGGATATCTGCTGGTGGCGGCTGTCTGGA 718
QY 201 GlyCysMetAsnProAlaAlaGlyAlaLeuLeuLeuLeuLeuLeuLeuLeu 220
Db 719 GGCTGCAATGATCCCGCGGTCCTTTGGACCTGGCGGTGGTGGCCACCACTGGACTTC 778
QY 221 HisTrpLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 240
Db 779 CACTGGATCTACTGGCTGGGCCACTCTGCTGGCTGGCTGGCTGGCTGGCTGG 838
QY 241 CysPheLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 254
Db 839 TGCTTCATTGGAGATGGGAGACCGCGCTCATCTCTGAGGCT 880

RESULT 10
US-10-106-698-1986
; Sequence 1986, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 1986
; LENGTH: 1712
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1688)..(1688)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc_feature
; LOCATION: (1692)..(1692)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc_feature
; LOCATION: (1697)..(1697)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-106-698-1986

Alignment Scores:
Pred. No.: 2,96e-244 Length: 1712
Score: 254.00 Matches: 254
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.61% Indels: 0
DB: 14 Gaps: 0

US-09-864-711-15 (1-255) x US-10-106-698-1986 (1-1712)

QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyArgTirp 20
|||||
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```

Db 396 ATGTGTGAGCCTGAATTTGGCAATGACAAAGCCAGGAGCCGAGCGTGGTGGCAGGTGG 455
QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGluLeuLeuGlySerAla 40
Db 456 CGAGTGTCTGTGTAGCAACGTTTGTGCAGCCATGTCGTGGTGAACCTGCTGGGCTCTGCT 515
QY 41 LeuPheLeuPheLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 60
Db 516 CTCTCTATCTTCTATCGGTGGCTGTGGTCAATGAGAAATGGAGGACACATGGGCTGCTG 575
QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValLeuAlaThrLeuGlyAsnLeu 80
Db 576 CAGCGGCGCTCTGGCCAGCGGCTGGCTTTGGGCTCGTGAATGCCAGCTGGGGAATATC 635
QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuLeuGlyLeuAsn 100
Db 636 AGTGGTGGACACTTCAACCTCGGGTGTCCCTGGGAGCCATGCTGATCGAGGCGCTCAAC 695
QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAla 120
Db 696 CTGGTGTATGCTCTCCGCTACTGGGTCTCACAGCTCTCGGGGGGATGCTCGGGGCTGCC 755
QY 121 LeuAlaLysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140
Db 756 TTGCCAAGGCGGTGAGTCTCTGAGGAGAGGTCTTGAATGTCATCTGGGGGCGCTTTGTG 815
QY 141 ThrValGlnGlnGlnGlnValAlaGlyAlaLeuValAlaGluLeuLeuThrThr 160
Db 816 ACATCCAGGAGCAGGGGCGAGTGGAGGGCGCTTGGTGGCAGAGATCATCTCGACGACC 875
QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaLeuLeuLeuLeuLeuLeuLeuLeu 180
Db 876 CTGTGGCGCTGGCTGTATGATGGTGGTCCATCAATGAGAGACAAAGGCGCTCTGGCC 935
QY 181 ProPheSerLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 200
Db 936 CCGTTCCTCATCTGGCTTTGGCTGCTCAGCGATATCTGGCTGGGGGCGCTGTGTCTGA 995
QY 201 GlyCysMetAsnProAlaAlaGlyAlaPheGlyProAlaValAlaAlaAsnHisTrpAsn 220
Db 996 GGCTGTGATGAATCCGCGCGCTGCTTTGGACCTGGCTGGTGGTGGCCACCACTGGAATTC 1055
QY 221 HisTrpLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 240
Db 1056 CACTGGATCTACTGGCTGGGCGCCACTCTGCTGGCTGGCTGGCTGGCTGGCTGGCT 1115
QY 241 CysPheLeuGlyAspGlyLysThrArgLeuLeuLeuLysAla 254
Db 1116 TGCTTCATTGGAGATGGGAGACCGCGCTCATCTCTGAGGCT 1157

RESULT 11
US-10-216-408-16
; Sequence 16, Application US/10216408
; Publication No. US20030013159A1
; GENERAL INFORMATION:
; APPLICANT: COHEN, MAURICE
; COLPITTS, TRACEY L.
; FRIEDMAN, PAULA N.
; GRANADOS, EDWARD N.
; KLASS, MICHAEL R.
; RUSSELL, JOHN C.
; STROUPE, STEVEN D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASE OF THE GASTROINTESTINAL
TRACT
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
COUNTRY: USA
ZIP: 60064-3500
```

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/10/216,408  
 FILING DATE: 09-Aug-2002  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/959,634  
 FILING DATE: <Unknown>  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Becker, Cheryl L.  
 REGISTRATION NUMBER: 35,441  
 REFERENCE/DOCKET NUMBER: 6188 US. 01  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 847/935-1729  
 TELEFAX: 847/938-2623  
 TELEX: <Unknown>

## INFORMATION FOR SEQ ID NO: 16:

## SEQUENCE CHARACTERISTICS:

LENGTH: 1314 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear

## MOLECULE TYPE: cDNA

## SEQUENCE DESCRIPTION: SEQ ID NO: 16:

US-10-216-408-16

## Alignment Scores:

Pred. No.:	2,31e-243	Length:	1314
Score:	253.00	Matches:	253
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	99.22%	Indels:	0
DB:	14	Gaps:	0

US-09-864-711-15 (1-255) x US-10-216-408-16 (1-1314)

QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyArgTrrp 20  
 DB 108 ATGTGTGAGCCTGAAATTTGGCAATGCAAGCCAGGGAGCCGCTGGTGGCAGGTGG 167  
 QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGluLeuLeuGlySerAla 40  
 DB 168 CGAGTGTCTGTGTGAGCAAGGTTTGTGACCCATGCTGTGTCGAACTGCTGTGCT 227  
 QY 41 LeuPheIlePheIleGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60  
 DB 228 CTCTTCATCTTCATCGGTGCTGTGCTGTCATGAGATGGAGCGGACCTGGGCTGCTG 287  
 QY 61 GlnProAlaLeuAlaHisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnIle 80  
 DB 288 CAGCCGCGCCCTGCGCCACGGCTGGCTTTGGGCTGCTGATTCAGCCAGCTGGGGAATATC 347  
 QY 81 SerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAsn 100  
 DB 348 AGTGTGGACACTTACCTTGGGTGCTGCTGCGAGCCATGCTGATCGAGGCGCTCAGC 407  
 QY 101 LeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyGlyMetLeuGlyAlaAla 120  
 DB 408 CTGTGTGATGCTCTCCGCTAGTGGTCTCAGCTGCTGGGGGATGCTCGGGGCTGCTG 467  
 QY 121 LeuAlaLysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheVal 140  
 DB 468 TTGGCCAAAGCGGTGAGTCTGAGGAGAGGTTTCTGGAATGCTGCTGGGGCGGCTTTGG 527  
 QY 141 ThrValGlnGlnGlnGlnValAlaGlyAlaLeuValAlaGluIleLeuThrThr 160  
 DB 528 ACATGTCCAGAGCAGGGGCGAGGTGGCAGGGGCGCTTGGTGGCAGAGATCATCTTCAGCAG 587  
 QY 161 LeuLeuAlaLeuAlaValCysMetGlyAlaIleAsnGluLysThrLysGlyProLeuAla 180

DB 588 TTGCTGGCCCTGCTGTATGCAATGGTGGTCCATCAATGAGACAAAGGCGCTCTGGCC 647  
 QY 181 ProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerGly 200  
 DB 648 CGGTTCCTCATCGCTTGGCGTCACTGATATCTGCTGGGGGCGCTGTGTCTGA 707  
 QY 201 GlyCysMetAsnProAlaArgAlaPheGlyProAlaValValAlaAsnHisTrpAsn 220  
 DB 708 GGTGTCATGAATCCGCGCTGCTTTTGGACCTGCGGTGGTGGCCACCACTGGAATTC 767  
 QY 221 HisTrpIleTyrTrpLeuGlyProLeuLeuAlaGlyLeuValGlyLeuLeuIleArg 240  
 DB 768 CACTGGATCTACGGCTGGGCGCCACTCTGCTGGCTGCTGTGTGGACTGCTCATTAGG 827  
 QY 241 CysPheIleGlyAspGlyLysThrArgLeuIleLys 253  
 DB 828 TGCTTCATTGGAGATGGAAGACCGCGCTCATCTGAAG 866

## RESULT 12

US-10-158-646-49  
 ; Sequence 49, Application US/10158646  
 ; Publication NO. US20030073105A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lasek, Amy K.W.  
 ; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
 ; FILE REFERENCE: PA-0030-1 US  
 ; CURRENT APPLICATION NUMBER: US/10/158,646  
 ; CURRENT FILING DATE: 2002-05-29  
 ; PRIOR APPLICATION NUMBER: 60/295,239  
 ; PRIOR FILING DATE: 2001-05-31  
 ; NUMBER OF SEQ ID NOS: 78  
 ; SOFTWARE: PERL Program  
 ; SEQ ID NO. 49  
 ; LENGTH: 1324  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; OTHER INFORMATION: Incyte ID No. US20030073105A1 201901.4  
 US-10-158-646-49

## Alignment Scores:

Pred. No.:	2,35e-219	Length:	1324
Score:	229.00	Matches:	255
Percent Similarity:	99.22%	Conservative:	0
Best Local Similarity:	99.22%	Mismatches:	0
Query Match:	89.80%	Indels:	2
DB:	14	Gaps:	0

US-09-864-711-15 (1-255) x US-10-158-646-49 (1-1324)

QY 1 MetCysGluProGluPheGlyAsnAspLysAlaArgGluProSerValGlyArgTrrp 20  
 DB 116 ATGTGTGAGCCTGAAATTTGGCAATGCAAGCCAGGGAGCCGCTGGTGGCAGGTGG 175  
 QY 21 ArgValSerTrpTyrGluArgPheValGlnProCysLeuValGluLeuLeuGlySerAla 40  
 DB 176 CGAGTGTCTGTGATGCAAGCGTTTGTGAGCCATGCTGTGCGAACTGCTGGGCTGTGCT 235  
 QY 41 LeuPheIlePheIleGlyCysLeuSerValIleGluAsnGlyThrAspThrGlyLeuLeu 60  
 DB 236 CTCTTCATCTTCATCGGTGCTGCTGCTGCTGATGAGATGGGACGACACTGGGCTGCTG 295  
 QY 61 GlnProAla-LeuAla-HisGlyLeuAlaLeuGlyLeuValIleAlaThrLeuGlyAsnI 80  
 DB 296 CAGCCGCGCCCTGCGCCACGGCTGCTTTGGGCTGCTGATTCGACGCTGGGGAATA 355  
 QY 80 LeSerGlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAla 100  
 DB 356 TCAGTGGTGGACACTTCAACCCCTGCGGTGTCCCTGGCAGCCATGCTGATGAGGCGCTCA 415

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QY 100 snLeuValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyMetLeuGlyAla 120
Db 416 ACCTGGTGCATGCTCCCGTACTGGGCTCTACAGTCTCGGGGGATGCTCGGGCTG 475
QY 120 laLeuAlaLysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaPheV 140
Db 476 CTTGGCCAGGCGGTGAGTCTGAGGAGAGGTCTGGAATGCATCTGGGCGSCCTTG 535
QY 140 alThrValGlnGlnGlnGlnValAlaGlnValAlaGlnValAlaGlnLeuThr 160
Db 536 TGACAGTCCAGGAGGAGGCGAGTGGCAGGGGCGTGGTGGCAGAGATCATCTGACGA 595
QY 160 hrLeuLeuAlaLeuAlaValCysMetGlyAlaLeuGlnLysThrLysGlyProLeuA 180
Db 596 CGCTGCTGGCCCTGGCTGTATGCATGAGGTGCTCATCATGAGAGACAAGGGCCCTG 655
QY 180 laProPheSerIleGlyPheAlaValThrValAspIleLeuAlaGlyGlyProValSerG 200
Db 656 CCGCGTTCTCCATCGCTTTGCGCTCACCGTGGATATCTGCTGGGCGCCCTGTGCTG 715
QY 200 lyGlyCysMetAsnProAlaArgAlaPheGlyProAlaValValAlaAsnHisTrpAsnP 220
Db 716 GAGGCTGCATGAATCCCGCCGCTGTTTGGACCTGGGTGGCCCAACACACCTGGACT 775
QY 220 heHisTrpIleTyrTrpLeuGlyProLeuLeuAlaGlyLeuLeuValGlyLeuLeuIleA 240
Db 776 TCCACTGGATCTACTGCTGGGCCACCTCTGCTGGCTGCTGTTGTTGACTGCTCATTA 835
QY 240 tGlyCysPheIleGlyAspGlyLysThrArgLeuLeuLeuLysAlaArg 255
Db 836 GTGCTTCTATGGAGATGGAGACCCGCTCATCTCTGAGGCTGG 882

RESULT 13
US-10-216-408-4
; Sequence 4, Application US/10216408
; Publication No. US20030013159A1
; GENERAL INFORMATION:
; APPLICANT: COHEN, MAURICE
; COLPITTS, TRACEY L.
; FRIEDMAN, PAULA N.
; GRANADOS, EDWARD N.
; KLAESS, MICHAEL R.
; RUSSELL, JOHN C.
; STROUPE, STEVEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASE OF THE GASTROINTESTINAL
; TRACT
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/216,408
; FILING DATE: 09-Aug-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,634
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6188.US.01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729

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; TELEFAX: 847/938-2623
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 257 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-216-408-4
Alignment Scores:
Pred. No.: 5,37e-76 Length: 257
Score: 85.00 Matches: 85
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.33% Indels: 0
DB: 14 Gaps: 0
US-09-864-711-15 (1-255) x US-10-216-408-4 (1-257)
QY 82 GlyGlyHisPheAsnProAlaValSerLeuAlaAlaMetLeuIleGlyLeuAsnLeu 101
Db 1 GGTGGACACTTCAACCTCGCGTGTCCCTGGCAGCCATGCTGATCGAGGCTCAACCTG 60
QY 102 ValMetLeuLeuProTyrTrpValSerGlnLeuLeuGlyMetLeuGlyAlaAlaLeu 121
Db 61 GTGATGCTCTCCCTGCTACTGGTCTCACAGTCTCGGGGGGATGCTCGGGGCTGCTG 120
QY 122 AlaLysAlaValSerProGluGluArgPheTrpAsnAlaSerGlyAlaAlaPheValThr 141
Db 121 GCCAAGCGGTGAGTCTGCTGAGGAGAGGTTCGTGAATGATCTGGGGGCGCTTTGTGACA 180
QY 142 ValGlnGlnGlnGlnValAlaGlnValAlaGlnValAlaGlnLeuThrLeuThrLeu 161
Db 181 GTCCAGGAGCAGGGCAGGTGCGAGGGCGTGTGGTGGCAGAGATCATCTGACAGCGCTG 240
QY 162 LeuAlaLeuAlaVal 166
Db 241 CTGGCCCTGGCTGTA 255

RESULT 14
US-10-216-408-3
; Sequence 3, Application US/10216408
; Publication No. US20030013159A1
; GENERAL INFORMATION:
; APPLICANT: COHEN, MAURICE
; COLPITTS, TRACEY L.
; FRIEDMAN, PAULA N.
; GRANADOS, EDWARD N.
; KLAESS, MICHAEL R.
; RUSSELL, JOHN C.
; STROUPE, STEVEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASE OF THE GASTROINTESTINAL
; TRACT
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/216,408
; FILING DATE: 09-Aug-2002
; CLASSIFICATION: <Unknown>

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 15, 2003, 11:15:03 ; Search time 82.4985 Seconds  
(without alignments)  
9303.989 Million cell updates/sec

Title: US-09-864-711-4  
Perfect score: 1739  
Sequence: 1 cccacgcgtccggggcgatg.....tgaaaaaaaaaaaaaaaaaaa 1739

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents\_NA:\*  
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2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq.\*  
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4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/2/ina/PCTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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c 3	184.4	10.6	90541	4	Sequence 1, Appli
c 4	182.8	10.5	148567	4	Sequence 3, Appli
c 5	181.6	10.4	14581	4	Sequence 3, Appli
c 6	181.6	10.4	22481	4	Sequence 4, Appli
c 7	181.6	10.4	22481	5	Sequence 43, Appl
c 8	181.6	10.4	202001	4	Sequence 2, Appli
c 9	181.6	10.4	202001	4	Sequence 3, Appli
c 10	178.4	10.3	43950	4	Sequence 3, Appli
c 11	178.4	10.3	43950	4	Sequence 3, Appli
c 12	178.2	10.2	63588	4	Sequence 3, Appli
c 13	178.2	10.2	68804	4	Sequence 3, Appli
c 14	178	10.2	74962	4	Sequence 3, Appli
c 15	177.2	10.2	20303	1	Sequence 6, Appli
c 16	177.2	10.2	26764	1	Sequence 1, Appli
c 17	175.6	10.1	32654	4	Sequence 3, Appli
c 18	174.4	10.0	98500	4	Sequence 10, Appl
c 19	173.2	10.0	70000	4	Sequence 3, Appli
c 20	173	9.9	1854	4	Sequence 992, App
c 21	173	9.9	16063	4	Sequence 3, Appli
c 22	172.8	9.9	5590	3	Sequence 129, App
c 23	172.8	9.9	19736	4	Sequence 3, Appli
c 24	172.8	9.9	162450	4	Sequence 1, Appli
c 25	172.6	9.9	1175	4	Sequence 105, App
c 26	172.6	9.9	36159	4	Sequence 3, Appli
c 27	172.6	9.9	62804	4	Sequence 3, Appli

c 28	172.4	9.9	17000	4	US-09-679-299A-18	Sequence 18, Appl
c 29	172.4	9.9	152331	3	US-09-128-153-16	Sequence 16, Appl
c 30	172.2	9.9	81001	4	US-09-750-580-1	Sequence 1, Appli
c 31	171.8	9.9	2562	2	US-08-436-771-8	Sequence 8, Appli
c 32	171.8	9.9	2562	2	US-08-434-998-8	Sequence 8, Appli
c 33	171.8	9.9	2562	2	US-08-487-797-8	Sequence 8, Appli
c 34	171.8	9.9	2562	5	PCT-US95-02058-8	Sequence 8, Appli
c 35	171.6	9.9	3089	4	US-09-996-243-46	Sequence 46, Appl
c 36	171.4	9.9	685	4	US-09-183-268A-16	Sequence 16, Appl
c 37	170.6	9.8	19011	1	US-08-310-358-36	Sequence 36, Appl
c 38	170.6	9.8	19557	5	PCT-US92-06300-1	Sequence 1, Appli
c 39	170.6	9.8	31571	1	US-08-323-443B-1	Sequence 2, Appli
c 40	170.6	9.8	53526	3	US-08-658-136-2	Sequence 1, Appli
c 41	170.6	9.8	53577	3	US-08-658-136-1	Sequence 1, Appli
c 42	170.6	9.8	55298	4	US-09-491-356C-1	Sequence 1, Appli
c 43	170.4	9.8	1332	4	US-09-584-568C-1	Sequence 1, Appli
c 44	170.4	9.8	23187	4	US-09-499-522-1	Sequence 1, Appli
c 45	170.2	9.8	619	3	US-09-385-982-358	Sequence 358, App

ALIGNMENTS

RESULT 1

US-09-495-050A-187  
; Sequence 187, Application US/09495050A  
; Patent No. 6492505  
; GENERAL INFORMATION:  
; APPLICANT: Roopa, Reddy  
; APPLICANT: Guegler, Karl, J.  
; APPLICANT: Au-Young, Janice  
; TITLE OF INVENTION: COMPOSITION FOR DETECTION OF GENES ENCODING MEMBRANE-ASSOCIATED  
; FILE REFERENCE: PA-0013 US  
; CURRENT APPLICATION NUMBER: US/09/495,050A  
; CURRENT FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/118,318  
; PRIOR FILING DATE: February 1, 1999  
; NUMBER OF SEQ ID NOS: 305  
; SOFTWARE: PERL Program  
; SEQ ID NO 187  
; LENGTH: 1249  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. 6492505 2085633CB1  
US-09-495-050A-187

Query Match	71.6%	Score 1245.4;	DB 4;	Length 1249;
Best Local Similarity	99.9%	Pred. No. 0;		
Matches 1246;	Conservative	0;	Mismatches	1; Indels
Gaps	0;			
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Db	1	TGAGATGTCCTCCATGGGTAGGATGTATAGACAAACAGCACTAGCCCTGGACAGGGA	60	
QY	502	TGGATGAGCCCTCCATGGATATTTCCCTCCATCAGTCACTACAGGCGCTTGG	561	
Db	61	TGGATGAGCCCTCCATGGATATTTCCCTCCATCAGTCACTACAGGCGCTTGG	120	
QY	562	ATCTGCTGCTTGGCAAGCATGCTTCCCTCTGAGCAGCACTACAGTCCCTATGGAAGAG	621	
Db	121	ATCTGCTGCTTGGCAAGCATGCTTCCCTCTGAGCAGCACTACAGTCCCTATGGAAGAG	180	
QY	622	AGATGTTCTAGCAGCAGGACAGAGAGCATGACACATTTGGAAACGAGGACAG	681	
Db	181	AGATGTTCTAGCAGCAGGACAGAGAGCATGACACATTTGGAAACGAGGACAG	240	
QY	682	TGTGAACAGGCGCATGCTTAGTGTGCCAGAGAGACCTCGGAAATGAGGGTAGG	741	
Db	241	TGTGAACAGGCGCATGCTTAGTGTGCCAGAGAGACCTCGGAAATGAGGGTAGG	300	
QY	742	GAACAACCAACACCTTGATCTCTTGAAGACTCTTTCTGCTCATTGATGATGAAGGC	801	

Db 301 GACAAACCAACACCTGATCTCTTGAAGACTCTTTCTGCTCATGAGTGAAGGCC 360  
QY 802 CCAGAGATTCAGTGTGTTCTTGGGTTTGGGCCCATCACAGAGTCAGATTTGGGCTT 861  
Db 361 CCAGAGATTCAGTGTGTTCTTGGGTTTGGGCCCATCACAGAGTCAGATTTGGGCTT 420  
QY 862 TAGGAGGCCCTCCCTGATCGATGGGTCACAGGACAGTCACAGCTGACGTAGTAG 921  
Db 421 TAGGAGGCCCTCCCTGATCGATGGGTCACAGGACAGTCACAGCTGACGTAGTAG 480  
QY 922 CAGTGCCCTGCTCAGTCTCATCAGTGGCCACCAATGATGATGATGATGATGATG 981  
Db 481 CAGTGCCCTGCTCAGTCTCATCAGTGGCCACCAATGATGATGATGATGATGATG 540  
QY 982 CCATGCTTGGAGACATCCCTCTGCTGATCTTCACTTCCATTCCTTCCCTCCAC 1041  
Db 541 CCATGCTTGGAGACATCCCTCTGCTGATCTTCACTTCCATTCCTTCCCTCCAC 600  
QY 1042 ACCTGCTCTCATTTTAGTTCCTGCGCTCTGAACCTGAAATCCACAAATGACCAT 1101  
Db 601 ACCTGCTCTCATTTTAGTTCCTGCGCTCTGAACCTGAAATCCACAAATGACCAT 660  
QY 1102 TCCTCTATCCCATCCAGCTTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1161  
Db 661 TCCTCTATCCCATCCATCTCTTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 720  
QY 1162 CTGCTCTTACTGACTTGCACCAACCTCTACCCAGCTTCAAAATTTACACACTGTGA 1221  
Db 721 CTGCTCTTACTGACTTGCACCAACCTCTACCCAGCTTCAAAATTTACACACTGT 780  
QY 1222 CTTCCTGACTTGCACCAAGACTCAGATAGACCTTCTCTCTCTCTCTCTCTCTCT 1281  
Db 781 CTTCCTGACTTGCACCAAGACTCAGATAGACCTTCTCTCTCTCTCTCTCTCTCT 840  
QY 1282 ACATACCTCTGCTGATCTTATCATATGATGATATTAATTAATGATGATGATG 1341  
Db 841 ACATACCTCTGCTGATCTTATCATATGATGATATTAATTAATGATGATGATG 900  
QY 1342 TTTACACAGACCAAGAAATCCTCATGGCCCAAGTCCATGCTTATTTACTCATGTGA 1401  
Db 901 TTTACACAGACCAAGAAATCCTCATGGCCCAAGTCCATGCTTATTTACTCATGTGA 960  
QY 1402 ATGCACCTAGACTTTCAGAGGCTGTTGTAAGTGGCTCATGCTGTATTCACACAGT 1461  
Db 961 ATGCACCTAGACTTTCAGAGGCTGTTGTAAGTGGCTCATGCTGTATTCACACAGT 1020  
QY 1462 TTGGAGGCTTGAGCGCGGCAGATCGCTGAGGTCAGGAGTTGAAACCCAGCTGGCCAT 1521  
Db 1021 TTGGAGGCTTGAGCGCGGCAGATCGCTGAGGTCAGGAGTTGAAACCCAGCTGGCCAT 1080  
QY 1522 ATGCCAAACCCCATCTTTATTAATAATACAGAAATTAACAGGCTGTTGGCTCATGCT 1581  
Db 1081 ATGCCAAACCCCATCTTTATTAATAATAACAGAAATTAACAGGCTGTTGGCTCATGCT 1140  
QY 1582 GTAATCCATGCTGTATTCACCTGAGGCTGAGGAGGAGAGATCAGTTGAATCC 1641  
Db 1141 GTAATCCGCTGCTGTATTCACCTGAGGCTGAGGAGGAGAGATCAGTTGAATCC 1200  
QY 1642 AGGAGGAGAGGTTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1688  
Db 1201 AGGAGGAGAGGTTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1247

RESULT 2

US-09-009-913-1/c  
; Sequence 1, Application US/0900913  
; Patent No. 6087485  
; GENERAL INFORMATION:  
; APPLICANT: Axys Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma Related Genes  
; NUMBER OF SEQUENCES: 339  
; CORRESPONDENCE ADDRESS:

ADDRESSEE: Bozicevic & Reed, LLP  
STREET: 285 Hamilton Ave, Suite 200  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94301  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/009,913  
FILING DATE: 21-JAN-1998  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Sherwood, Pamela J  
REGISTRATION NUMBER: 36,677  
REFERENCE/DOCKET NUMBER: SEQ-4P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-327-3231  
TELEFAX: 650-327-3231  
TELEX:  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 72928 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: Genomic DNA  
US-09-009-913-1  
Query Match 10.68; Score 185.2; DB 3; Length 72928;  
Best Local Similarity 81.7%; Pred. No. 4.3e-46;  
Matches 255; Conservative 0; Mismatches 43; Indels 14; Gaps 3;  
QY 1429 GGTAAAGTGGCTCATGCTGTAATCCCAACAGTTTGGAGGCTTGAGCGGCGAGATCGCT 1488  
Db 38946 GTGTCAGTGGCTCTGCTGCTGTAATCCAGACATTTGGAGGCGGAGGAGGAGTCACT 38887  
QY 1489 TGAGTCAGGAGTTGAACACAGCTGGCCAAATGCGAAACCCCATCTTTA-TAAAAA 1547  
Db 38886 TGAGTCAGGAGTTGAGACAGCTGGCCAAATGCGAAACCCCATCTTTA-TAAAAA 38827  
QY 1548 TACAGAAATTAAGCAGGCTGTTGGTCTCATGCCGTGTAATCCCATGCTTAATCCAGCC 1607  
Db 38826 TATAAACTTAAGCAGGCTGTTGGTCTCATGCCGTGTAATCCCATGCTTAATCCCAT 38779  
QY 1608 TTGGAGGCTGAGCGAGGAGATTCATTTGAATCCAGGAGGAGAGTTCAGTGAATGA 1667  
Db 38778 TTGGAGGCTGAGCGAGGAGATTCATTTGAATCCAGGAGGAGAGTTCAGTGAATGA 38719  
QY 1668 GATTGACCACTGCTGCTGAGGCTGGCAACACACAGCAACACAGCAACACAGCAACAC 1727  
Db 38718 GATGACCACTGCTGCTGAGGCTGGCAACACACAGCAACACAGCAACACAGCAACAC 38660  
QY 1728 AAAAAA 1739  
Db 38659 AAAAAA 38648

RESULT 3

US-09-759-359A-3/c  
; Sequence 3, Application US/09759359A  
; Patent No. 6492153  
; GENERAL INFORMATION:  
; APPLICANT: ASU-THREIDEH, Jane et al  
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
; TITLE OF INVENTION: THEREOF



```

; FILE REFERENCE: CL001043
; CURRENT APPLICATION NUMBER: US/09/759,359A
; CURRENT FILING DATE: 2001-01-16
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: fastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 90541
; TYPE: DNA
; ORGANISM: Human
US-09-759-359A-3

```

Query Match	10.6%;	Score 184.4;	DB 4;	Length 90541;
Best Local Similarity	79.5%;	Pred. No. 8.7e-46;		
Matches 248;	Conservative	0;	Mismatches 51;	Indels 13; Gaps 2;
QY	1429	GGTAAGATGGCTCATGGCTCTTAATCCACACAGTTTGGAGGCTGAGCGCGGACGATCGCT	1488	
DB	26237	GGGATGGTGGCTTAATGTCGTAAATCGAGCACTTTGGAGGCTTGAGGCAGCGAGATCCCT	26178	
QY	1489	TGAGGTCCAGGAGTTTGAARCCAGCCTTGGCCAATATGGCAAAACCCCATCTTTTA-TAAAAA	1547	
DB	26177	TGAGGTCCAGGAGTTTGAGACCACCGCTGGCCATCATGTTGAACCGCACTCTCCACTAAAA	26118	
QY	1548	TACAGAAATTACCGAGTGTGTGGCTCATGCTCTGTAATCCATGCCCTGTAAATCCAGGC	1607	
DB	26117	TACAAAGATTGCGGGTGTGTGGCGCATGCTTTTAATCCTA-----GCTAC	26070	
QY	1608	TTGGGAGGCTTGAGCCAGGAGAATCACTTGAATCAGAGCGCAGAGGTTGCAGTCACTGA	1667	
DB	26069	TGGGAGGCTTGAGGCAGGAGAATCACTTGAACCCAGGAGGAGGTTGCAGTGAAGTCA	26010	
QY	1668	GATTTGACCACTGCACTCCAGCCTTGGGCAACACACTGAGCAAAACTGCCTGTGCTGTA	1727	
DB	26009	GATTTGCCAATTGCACTCCAGCCTTGGGCAACACACTGAGTGAAGTCCATCTC	25950	
QY	1728	AAAAAAAAAAAAA	1739	
DB	25949	AAAAAAAAAAAAA	25938	

```

RESULT 4
US-09-801-876B-3
; Sequence 3, Application US/09801876B
; Patent No. 6492155
; GENERAL INFORMATION:
; APPLICANT: YE, Jane et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THERSOF
; FILE REFERENCE: C1001160
; CURRENT APPLICATION NUMBER: US/09/801,876B
; CURRENT FILING DATE: 2001-03-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 148567
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(148567)
; OTHER INFORMATION: n = A,T,C or G
US-09-801-876B-3

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	Query Match	10.5%	Score 182.8;	DB 4;	Length 148567;
	Best Local Similarity	74.4%;	0; Mismatches 77;	Indels 13;	Gaps 2;
	Matches 262;	Conservative			
QY	1387	TTTACTTCATGTTGAATGCACCTAGCATTTGAGAAGTGTGTGTTAAAGTGGCTCATGCC	1446		
Db	10172	TTTGATTTTTTCCATCAATFAAAAAGTGTAAAAATTGGCGGGGCATGTTGGTCTCATGCC	10231		
	1447	TGTRATCCCAAGATTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGAGCTTTGAA	1506		
QY					

Db	10232	TGTATATCCAGCACATTGTGGGAGCGCAGATGCGGCAGATCACCTTGAGGTCACGAGTTTCGAG	10291
Qy	1507	ACCAAGCCTGGCCAAATATGGCAAAACCCCATCTTTATATAAAATACAGAAATTAGCCAGGTC	1566
Db	10232	ACCAAGCCTGACCAACATCGAGAAACCCCTCTATATATAAAATACAAAAATTAGCTGGGTG	10351
Qy	1567	TGTTGGGTCATCGCTGTAAATCCCATGCCGTGTAATCCAGCCTTTGGGAGGCTTGAGGCAGGA	1626
Db	10352	TGTTGGGCGCTACCTGTATATCCCA-----GCTACTCGGAGGCTTGAGGCAGGA	10399
Qy	1627	GAATCACTTGAATTCAGAGGAGCAGAGGTTGCAGTCGACTGAGATTGGACCACTGCATCC	1686
Db	10400	GAATCGGTTGTAATGCAGGAGGCGAGGTTGCGGTGAGCCAGCAATTCACACATTGCATCC	10459
Qy	1687	AGCCTGGGCACACACTGACCAAACTGCCCTGCTGTAATAAAAAAATAAAAAA	1738
Db	10460	AGCCGGGGCAACA-AGAGCAAAATCCGGTCTCAAAAAAATAAAAAAATAAAAAA	10510

RESULT 5  
US-08-520-373D-4/c  
; Sequence 4, Application US/08520373D  
; Patent No. 6451763  
; GENERAL INFORMATION:  
; APPLICANT: Tombran-Tink, Joyce  
; APPLICANT: Steele, Tintan R  
; APPLICANT: Chader, Gerald J  
; APPLICANT: Becerra, Sofia P  
; APPLICANT: Johnson, Lincoln V  
; APPLICANT: Rodriguez, Ignacio R  
; TITLE OF INVENTION: RETINAL PIGMENTED EPITHELIUM DERIVED NEUROTROPIC FACTOR  
; FILE REFERENCE: 2026-4203US1  
; CURRENT APPLICATION NUMBER: US/08/520,373D  
; CURRENT FILING DATE: 1995-08-29  
; PRIOR APPLICATION NUMBER: 08/377,710  
; PRIOR FILING DATE: 1995-01-25  
; PRIOR APPLICATION NUMBER: 08/279,979  
; PRIOR FILING DATE: 1994-07-25  
; PRIOR APPLICATION NUMBER: 07/894,215  
; PRIOR FILING DATE: 1992-06-04  
; PRIOR APPLICATION NUMBER: 07/952,796  
; PRIOR FILING DATE: 1992-09-24  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 4  
; LENGTH: 14581  
; TYPE: DNA  
; ORGANISM: HUMAN  
; FEATURE:  
; OTHER INFORMATION: mRNA: 6683; EXON: 6683-6790; EXON 11584-11675;  
; OTHER INFORMATION: mRNA: 14539-14581; INTRON: 6791-11583; INTRON:  
; OTHER INFORMATION: 11676-14538; CDS: 11584-11675; 14539-14580  
US-08-520-373D-4

	Query Match	10.4%	Score 181.6;	DB 4;	Length 14581;
	Best Local Similarity	81.1%;	Prod. No. 2.2e-45;		
	Matches 253;	Conservative	0;	Mismatches 44;	Indels 15; Gaps 3;
QY	1429	GGTAAAGTGGCTCATGCTGTAAATCCCAACAGAGTTTGGGAGGCTGAGGCGGCGAGATCGCT	1488		
DB	9815	GGCGCAGTGGGCTCAAACTGTAAATCCGACACATTTGAGAGGCGGAGCGGTAGATCACC	9756		
QY	1489	TGAGTGTACAGAGTTTCAAAACACGAGCTGGCCAAATATGGCAAAACCCCATCTTTA-TAAAAA	1547		
DB	9755	TGAGTGTACAGAGTTTGTAGACCATCTTGCCCAACATGGAGAAACCCCATCTCTACTATAAA	9696		
QY	1548	TCAGAAATTAGCCAGGTGTGGTGGCTGATGCTGTAAATGCCATGCTGTAAATCCGAGCC	1607		
DB	9695	TACAAAATTAGCCGGGTGTGGTGGCCATGCTGTAAATCCCA-----GCTAC	9648		
QY	1608	TTGGGAGGCTGAGCGAGAGATCACTTGAATCCAGGAGGAGAGGTTGCAGTGAACATGA	1667		



FEATURE:  
NAME/KEY: PL-147

LOCATION:  
IDENTIFICATION METHOD:  
OTHER INFORMATION: full length genomic  
OTHER INFORMATION: sequence for PEDF plus flanking sequences.  
PCT-US95-07201-43

Query Match 10.4%; Score 181.6; DB 5; Length 22481;  
Best Local Similarity 81.1%; Pred. No. 2.8e-45;  
Matches 253; Conservative 0; Mismatches 44; Indels 15; Gaps 3;  
QY 1429 GGTAAAGGGCTCATGCTGTAATCCCAACAGTTGGAGGGCTGAGCGCGGAGATCGCT 1488  
DB GCGCAGTGGCTCAAACTGTATCCAGCACCTTTGAGAGCGCGGAGGCTAGATCAAC 9745  
QY 1489 TGAGTTCAGAGTTTGAACACAGCTGCCAAATATGCAAAACCCCATCTTTA-TAAAAA 1547  
DB TGAGTTCAGAGTTTGAACACAGCTGCCAAATATGCAAAACCCCATCTTTA-TAAAAA 9685  
QY 1548 TACAGAAATAGCCAGGTGGTGGCTCATGCTGTATCCCATGCTGTATCCAGCC 1607  
DB TACAGAAATAGCCAGGTGGTGGCTCATGCTGTATCCCATGCTGTATCCCA-----GCTAC 9637  
QY 1608 TTGGAGGCTGAGCAGGAGATCACTTGAATCCAGGAGGAGAGTTGCACTGAACTGA 1667  
DB TTGGAGGCTGAGCAGGAGATCACTTGAATCCAGGAGGAGAGTTGCACTGAACTGA 9577  
QY 1668 GATTGACACTGCACATCCAGCTGGGCAACACTGACAAACCTGCTGTGTAAGAAAA 1727  
DB GATTGACACTGCACATCCAGCTGGGCAACACTGACAAACCTGCTGTGTAAGAAAA 9519  
QY 1728 AAAAAAAGGAAA 1739  
DB AAAAAAAGGAAA 9507

## RESULT 8

US-09-875-223-2/c  
Sequence 2, Application US/09875223  
Patent No. 6391850  
GENERAL INFORMATION:  
APPLICANT: No. 6391850 Western University  
APPLICANT: David Dawson  
APPLICANT: Paul Gillis  
TITLE OF INVENTION: Methods and Compositions for Inhibiting Angiogenesis  
FILE REFERENCE: 0290-2303  
CURRENT APPLICATION NUMBER: US/09/875,223  
CURRENT FILING DATE: 2001-06-06  
PRIOR APPLICATION NUMBER: US 09/122,079  
PRIOR FILING DATE: 1998-07-23  
PRIOR APPLICATION NUMBER: PCT/US98/15228  
PRIOR FILING DATE: 1998-07-23  
PRIOR APPLICATION NUMBER: US 08/899,304  
PRIOR FILING DATE: 1997-07-23  
NUMBER OF SEQ ID NOS: 2  
SOFTWARE: Patent In Ver. 2.1  
SEQ ID NO 2  
LENGTH: 22484  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: Unsure  
LOCATION: 1...22484  
OTHER INFORMATION: "n" means either a, c, t, or g  
US-09-875-223-2

Query Match 10.4%; Score 181.6; DB 4; Length 22484;  
Best Local Similarity 81.1%; Pred. No. 2.8e-45;  
Matches 253; Conservative 0; Mismatches 44; Indels 15; Gaps 3;  
QY 1429 GGTAAAGGGCTCATGCTGTAATCCCAACAGTTGGAGGGCTGAGCGCGGAGATCGCT 1488

DB 9804 GCGCAGTGGCTCAAACTGTATCCAGCACCTTTGAGAGCGCGGAGATCAAC 9745  
QY 1489 TGAGTTCAGAGTTTGAACACAGCTGGCCAAATATGCAAAACCCCATCTTTA-TAAAAA 1547  
DB TGAGTTCAGAGTTTGAACACAGCTGGCCAAATATGCAAAACCCCATCTTTA-TAAAAA 9685  
QY 1548 TACAGAAATAGCCAGGTGGTGGCTCATGCTGTATCCCATGCTGTATCCAGCC 1607  
DB TACAGAAATAGCCAGGTGGTGGCTCATGCTGTATCCCATGCTGTATCCCA-----GCTAC 9637  
QY 1608 TTGGAGGCTGAGCAGGAGATCACTTGAATCCAGGAGGAGAGTTGCACTGAACTGA 1667  
DB TTGGAGGCTGAGCAGGAGATCACTTGAATCCAGGAGGAGAGTTGCACTGAACTGA 9577  
QY 1668 GATTGACACTGCACATCCAGCTGGGCAACACTGACAAACCTGCTGTGTAAGAAAA 1727  
DB GATTGACACTGCACATCCAGCTGGGCAACACTGACAAACCTGCTGTGTAAGAAAA 9519  
QY 1728 AAAAAAAGGAAA 1739  
DB AAAAAAAGGAAA 9507

## RESULT 9

US-09-734-674-3  
Sequence 3, Application US/09734674  
Patent No. 6498022  
GENERAL INFORMATION:  
APPLICANT: WEI, Ming-Hui et al  
TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,  
TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,  
FILE REFERENCE: CL001018  
CURRENT APPLICATION NUMBER: US/09/734,674  
CURRENT FILING DATE: 2000-12-13  
NUMBER OF SEQ ID NOS: 4  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 3  
LENGTH: 202001  
TYPE: DNA  
ORGANISM: Human  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)...(202001)  
OTHER INFORMATION: n = A,T,C or G  
US-09-734-674-3

Query Match 10.4%; Score 181.6; DB 4; Length 202001;  
Best Local Similarity 79.7%; Pred. No. 1e-44;  
Matches 244; Conservative 0; Mismatches 49; Indels 13; Gaps 2;  
QY 1435 GTGGCTCATGCTGTATCCCAACAGTTTGGAGGCTGAGCGCGGAGATCGCTTGAGGT 1494  
DB GTGGCTCATGCTGTATCCAGCACCTTTGGAGGCTGAGGAGGAGATCACTTGAGGT 72713  
QY 1495 CASGAGTTTGAACACAGCTGGCCAAATATGCAAAACCCCATCTTTA-TAAAAATACGA 1553  
DB CASGAGTTTGAACACAGCTGGCCAAATATGCAAAACCCCATCTTTA-TAAAAATACGA 72773  
QY 1554 AATTAGCCAGGTGGTGGCTCATGCTGTATCCCATGCTGTATCCAGCCCTTGGGA 1613  
DB AATTAGCCAGGTGGTGGCTCATGCTGTATCCCA-----GCTACTTGGGA 72821  
QY 1614 GGCTGAGCAGGAGATCACTTGAATCCAGGAGGAGAGTTGCACTGAGATGG 1673  
DB GGCTGAGCAGGAGATCACTTGAATCCAGGAGGAGAGTTGCACTGAGATGG 72881  
QY 1674 ACCACTGCACCTCCAGCTGGGCAACACTGACAAACCTGCTGTGTAAGAAAAA 1733  
DB ACCACTGCACCTCCAGCTGGGCAACACTGACAAACCTGCTGTGTAAGAAAAA 72941  
QY 1734 AAAAAA 1739

Db 72942 AAGAAA 72947  
|||

RESULT 10

US-09-735-934A-3/c  
; Sequence 3, Application US/09735934A  
; Patent No. 6372468  
; GENERAL INFORMATION:  
; APPLICANT: LI, Jiyin et al  
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
; TITLE OF INVENTION: THEREOF  
; FILE REFERENCE: CL000851  
; CURRENT APPLICATION NUMBER: US/09/735.934A  
; CURRENT FILING DATE: 2000-12-14  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 43950  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-735-934A-3

Query Match 10.3%; Score 178.4; DB 4; Length 43950;  
Best Local Similarity 77.5%; Pred. No. 4.1e-44;  
Matches 234; Conservative 0; Mismatches 56; Indels 12; Gaps 1;  
QY 1430 GTAAGTGGCTCATGCTGTATATCCACAGTGTGGAGGCTGAGCGCGGACATCGCTT 1489  
DB 12054 GCATGGTGGCTCAGCGCTGTATATCCAGCACTTTGGAGGCGCAAGCGCGGATCAGCTT 11995  
QY 1490 GAGGTCAGGAGTTGAAACAGCCTGGCCAATATGCAAAACCCCATCTTATAAAATA 1549  
DB 11994 GAGGTCAGGAGTTGAGACCACTGGCCAACATGCAAAACCCCATCTTATAAAAT 11935  
QY 1550 CAGAAATAGCCAGTGTGGTGGCTCATGCTGTATATCCAGTGCCTGTATATCCAGCCTT 1609  
DB 11934 ACATAATTAGCCGGGTGTAGTGGCACAGCGCTGTATATCCCA 11887  
QY 1610 GGGAGGCTGAGGAGGAGGAATCACTTGAATCCAGGAGGAGGAGTTCAGTGAACCTGAGA 1669  
DB 11886 CGGAGGCTGAGGAGGAGGAATCACTTGAATCCAGGAGGAGGAGTTCAGTGAACCTGAGA 11827  
QY 1670 TTGGACACTGCACCTCCAGCCTGGCCAACACTGAGCAAAACTGCCTGTCTGTAAGAAAAA 1729  
DB 11826 TCACGCCACTGCACCTCCAGCCTGGCCAATATACGAGACTCAGTTTCAAAAAA 11767  
QY 1730 AA 1731  
DB 11766 GA 11765

Query Match 10.3%; Score 178.4; DB 4; Length 43950;  
Best Local Similarity 77.5%; Pred. No. 4.1e-44;  
Matches 234; Conservative 0; Mismatches 56; Indels 12; Gaps 1;

QY 1430 GTAAGTGGCTCATGCTGTATATCCACAGTGTGGAGGCTGAGCGCGGACATCGCTT 1489  
DB 12054 GCATGGTGGCTCAGCGCTGTATATCCAGCACTTTGGAGGCGCAAGCGCGGATCAGCTT 11995  
QY 1490 GAGGTCAGGAGTTGAAACAGCCTGGCCAATATGCAAAACCCCATCTTATAAAATA 1549  
DB 11994 GAGGTCAGGAGTTGAGACCACTGGCCAACATGCAAAACCCCATCTTATAAAAT 11935  
QY 1550 CAGAAATAGCCAGTGTGGTGGCTCATGCTGTATATCCAGTGCCTGTATATCCAGCCTT 1609  
DB 11934 ACATAATTAGCCGGGTGTAGTGGCACAGCGCTGTATATCCCA 11887  
QY 1610 GGGAGGCTGAGGAGGAGGAATCACTTGAATCCAGGAGGAGGAGTTCAGTGAACCTGAGA 1669  
DB 11886 CGGAGGCTGAGGAGGAGGAATCACTTGAATCCAGGAGGAGGAGTTCAGTGAACCTGAGA 11827  
QY 1670 TTGGACACTGCACCTCCAGCCTGGCCAACACTGAGCAAAACTGCCTGTCTGTAAGAAAAA 1729  
DB 11826 TCACGCCACTGCACCTCCAGCCTGGCCAATATACGAGACTCAGTTTCAAAAAA 11767  
QY 1730 AA 1731  
DB 11766 GA 11765

RESULT 11

US-10-060-332-3/c  
; Sequence 3, Application US/10060332  
; Patent No. 6528294  
; GENERAL INFORMATION:  
; APPLICANT: LI, Jiyin et al  
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
; TITLE OF INVENTION: THEREOF  
; FILE REFERENCE: CL000851DIV  
; CURRENT APPLICATION NUMBER: US/10/060.332  
; CURRENT FILING DATE: 2002-02-01  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 43950  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-060-332-3

Query Match 10.2%; Score 178.2; DB 4; Length 63588;  
Best Local Similarity 77.0%; Pred. No. 5.9e-44;  
Matches 235; Conservative 0; Mismatches 58; Indels 12; Gaps 1;  
QY 1429 GGTAAAGTGGCTCATGCTGTATATCCACAGTGTGGAGGCTGAGCGCGGACATCGCT 1488  
DB 52178 GGCACATGGCTGCACACTGTATATCCAGCACTTTGGAGGCTGAGGTGGTGGATCAAC 52119  
QY 1489 TGAGGTTCAGGAGTTGAAACAGCCTGGCCAATATGCAAAACCCCATCTTATAAAAT 1548  
DB 52118 TCAGGTTCGGAGTTTCGAGACCACTGACCAACATGCTGAACCCCTGTCTTATAAA 52059  
QY 1549 ACAGAAATAGCCAGTGTGGTGGCTCATGCTGTATATCCAGTGCCTGTATATCCAGCCTT 1608  
DB 52058 TACAAAATAGTACGCGGTGGTGGCGCATGCTGTATATCCCA 52011  
QY 1609 TGGAGGCTGAGGAGGAGGAATCACTTGAATCCAGGAGGAGGAGTTCAGTGAACCTGAG 1668  
DB 52010 TGGAGGCTGAGGAGGAGGAATCACTTGAATCCAGGAGGAGGAGTTCAGTGAACCTGAG 51951

Query Match 10.3%; Score 178.4; DB 4; Length 43950;  
Best Local Similarity 77.5%; Pred. No. 4.1e-44;  
Matches 234; Conservative 0; Mismatches 56; Indels 12; Gaps 1;  
QY 1430 GTAAGTGGCTCATGCTGTATATCCACAGTGTGGAGGCTGAGCGCGGACATCGCTT 1489  
DB 12054 GCATGGTGGCTCAGCGCTGTATATCCAGCACTTTGGAGGCGCAAGCGCGGATCAGCTT 11995  
QY 1490 GAGGTCAGGAGTTGAAACAGCCTGGCCAATATGCAAAACCCCATCTTATAAAATA 1549  
DB 11994 GAGGTCAGGAGTTGAGACCACTGGCCAACATGCAAAACCCCATCTTATAAAAT 11935  
QY 1550 CAGAAATAGCCAGTGTGGTGGCTCATGCTGTATATCCAGTGCCTGTATATCCAGCCTT 1609  
DB 11934 ACATAATTAGCCGGGTGTAGTGGCACAGCGCTGTATATCCCA 11887  
QY 1610 GGGAGGCTGAGGAGGAGGAATCACTTGAATCCAGGAGGAGGAGTTCAGTGAACCTGAGA 1669  
DB 11886 CGGAGGCTGAGGAGGAGGAATCACTTGAATCCAGGAGGAGGAGTTCAGTGAACCTGAGA 11827  
QY 1670 TTGGACACTGCACCTCCAGCCTGGCCAACACTGAGCAAAACTGCCTGTCTGTAAGAAAAA 1729  
DB 11826 TCACGCCACTGCACCTCCAGCCTGGCCAATATACGAGACTCAGTTTCAAAAAA 11767  
QY 1730 AA 1731  
DB 11766 GA 11765

RESULT 12

US-09-873-404-3/c  
; Sequence 3, Application US/09873404  
; Patent No. 6500656  
; GENERAL INFORMATION:  
; APPLICANT: WEBSTER, Marion et al  
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
; FILE REFERENCE: CL001212-CIP  
; CURRENT APPLICATION NUMBER: US/09/873.404  
; CURRENT FILING DATE: 2001-06-05  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 63588  
; TYPE: DNA  
; ORGANISM: Human  
; NAME/KEY: misc.feature  
; LOCATION: (1)...(63588)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-873-404-3

Query Match 10.2%; Score 178.2; DB 4; Length 63588;  
Best Local Similarity 77.0%; Pred. No. 5.9e-44;  
Matches 235; Conservative 0; Mismatches 58; Indels 12; Gaps 1;  
QY 1429 GGTAAAGTGGCTCATGCTGTATATCCACAGTGTGGAGGCTGAGCGCGGACATCGCT 1488  
DB 52178 GGCACATGGCTGCACACTGTATATCCAGCACTTTGGAGGCTGAGGTGGTGGATCAAC 52119  
QY 1489 TGAGGTTCAGGAGTTGAAACAGCCTGGCCAATATGCAAAACCCCATCTTATAAAAT 1548  
DB 52118 TCAGGTTCGGAGTTTCGAGACCACTGACCAACATGCTGAACCCCTGTCTTATAAA 52059  
QY 1549 ACAGAAATAGCCAGTGTGGTGGCTCATGCTGTATATCCAGTGCCTGTATATCCAGCCTT 1608  
DB 52058 TACAAAATAGTACGCGGTGGTGGCGCATGCTGTATATCCCA 52011  
QY 1609 TGGAGGCTGAGGAGGAGGAATCACTTGAATCCAGGAGGAGGAGTTCAGTGAACCTGAG 1668  
DB 52010 TGGAGGCTGAGGAGGAGGAATCACTTGAATCCAGGAGGAGGAGTTCAGTGAACCTGAG 51951



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; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20303 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: 4q35
US-08-370-975B-6

Query Match      10.2%; Score 177.2; DB 1: Length 20303;
Best Local Similarity 75.8%; Pred No. 6.1e-44;
Matches 250; Conservative 0; Mismatches 68; Indels 12; Gaps 2;

QY 1410 AGCATTTGAGAGGTGCTGTTAAAGTGGCTCATGCTGTATATCCCAACAGTTTGGGAGG 1469
Db      ||| ||||| ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
6536 AGAATAAAGAGTGGCGGCGCACAGTCACTCAAGCCTGTATATCCAGGACITTTGGGAGG 6477
QY 1470 CTGAGCGCGGCGAGATCGTTGAGTCCAGGCTGAGAGTTCGAAACAGCGCTGCCAATATGCCAAA 1529
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
6476 CTGAGCGGCTGATCACCCTGAGTCAGGAGTTGAGACCGCTGCGCAACATGCTGAA 6417
QY 1530 ACCCATCTTTA-TAAAAATACAGAAATTAGCCAGGTGTGTGCTCATGCTGTATATCC 1588
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
6416 ACCCATCTCTACTAAAAATACAAAAATTAAACAGGCGTGGTGGCAGTGCCTGTATCA 6357
QY 1589 CATGCTGTATATCCCGCTTTGGGAGCTGAGGAGGATCACTGTATCCAGGAGGC 1648
Db      ||| ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
6356 CACAGCT-----ACTCCGAGGCTGAAGCAGGAGAAATCGCTTGAACCTTGAGGT 6308
QY 1649 AGAGTTGCAAGTCAACTGAGATTGGACCACTGCACCTCCAGCTGGGCAACACTGAGCAAA 1708
Db      ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
6307 GGAGGCTGCAAGTGAAGCAAGATTGTGCCACTGCACTCCAGCTGGGTGACAGAGCAAGAC 6248
QY 1709 ACTGCTGTCTGCAAAAAAATAAAAAA 1738
Db      ||| ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
6247 TCTGCTCAAAAAAATAAAAAAATAAAAAA 6218
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Search completed: October 15, 2003, 11:19:34  
Job time : 88.4985 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 15, 2003, 11:15:03 ; Search time 343.4 Seconds  
(without alignments)  
13140.291 Million cell updates/sec

Title: US-09-864-711-4

Perfect score: 1739

Sequence: 1 cccacgctccggggcgatg.....tgaaaaaaaaiaaaaaa 1739

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Gapop 10.0 , Gapext 1.0

Searched: 1731049 seqs, 1297405648 residues

Total number of hits satisfying chosen parameters: 3462098

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications\_NA:\*

- 1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq:\*
- 2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq:\*
- 3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq:\*
- 4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq:\*
- 5: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq:\*
- 6: /cgn2\_6/ptodata/1/pubpna/PCTUS\_PUBCOMB.seq:\*
- 7: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq:\*
- 8: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq:\*
- 9: /cgn2\_6/ptodata/1/pubpna/US09A\_PUBCOMB.seq:\*
- 10: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq:\*
- 11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq:\*
- 12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq:\*
- 13: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq:\*
- 14: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq:\*
- 15: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq:\*
- 16: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq:\*
- 17: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	1739	100.0	1739	9	US-09-864-711-4	Sequence 4, Appli
2	1372	78.9	1420	9	US-09-872-153-9	Sequence 9, Appli
3	1245.4	71.6	1249	14	US-10-313-542-187	Sequence 187, App
4	402	23.1	402	14	US-10-060-036-3766	Sequence 3766, Ap
5	402	23.1	402	14	US-10-060-036-4049	Sequence 4049, Ap
6	192.6	11.1	2655	13	US-10-027-632-250936	Sequence 250936, Ap
7	192.6	11.1	2655	13	US-10-027-632-250937	Sequence 250937, Ap
8	192.6	11.1	2655	13	US-10-027-632-250938	Sequence 250938, Ap
9	192.6	11.1	2655	13	US-10-027-632-250939	Sequence 250939, Ap
10	190.8	11.0	108317	12	US-10-017-161-2143	Sequence 2143, Ap
11	189.4	10.9	35425	12	US-10-017-161-2429	Sequence 2429, Ap
12	185.8	10.7	2049	13	US-10-027-632-99848	Sequence 99848, A
13	184.4	10.6	5197	10	US-09-860-670-248	Sequence 248, App
14	184.4	10.6	14426	10	US-09-860-670-249	Sequence 249, App
15	184.4	10.6	14426	10	US-09-860-670-252	Sequence 252, App
16	184.4	10.6	90541	9	US-09-759-359A-3	Sequence 3, Appli

c 17	184.4	10.6	90541	12	US-10-207-973-3	Sequence 3, Appli
18	184	10.6	2453	13	US-10-027-632-103082	Sequence 103082,
19	184	10.6	2453	13	US-10-027-632-103083	Sequence 103083,
20	184	10.6	2453	13	US-10-027-632-112196	Sequence 112196,
21	183.4	10.5	14448	10	US-09-860-670-250	Sequence 250, App
22	183.4	10.5	14451	10	US-09-860-670-253	Sequence 253, App
23	183.2	10.5	3058	13	US-10-027-632-114029	Sequence 114029,
24	183	10.5	1417	9	US-09-764-869-2150	Sequence 2150, Ap
25	183	10.5	1417	14	US-10-091-504-2150	Sequence 2150, Ap
26	182.8	10.5	14417	10	US-09-860-670-251	Sequence 251, App
27	182.8	10.5	148567	10	US-09-801-876B-3	Sequence 3, Appli
28	182.8	10.5	148567	14	US-10-254-869-3	Sequence 3, Appli
29	182.6	10.5	556	13	US-10-027-632-128662	Sequence 128662,
c 30	182.6	10.5	29921	13	US-10-083-853-1	Sequence 1, Appli
c 31	182.2	10.5	541	13	US-10-027-632-228604	Sequence 228604,
c 32	182.2	10.5	541	13	US-10-027-632-228605	Sequence 228605,
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c 34	182	10.5	552	13	US-10-027-632-128663	Sequence 128663,
c 35	181.8	10.5	808	13	US-10-027-632-132993	Sequence 132993,
c 36	181.6	10.4	793	13	US-10-027-632-143047	Sequence 143047,
c 37	181.6	10.4	793	13	US-10-027-632-165653	Sequence 165653,
c 38	181.6	10.4	14581	14	US-10-216-373-4	Sequence 4, Appli
c 39	181.6	10.4	22484	9	US-09-875-114-2	Sequence 2, Appli
c 40	181.6	10.4	22484	10	US-09-880-107-3341	Sequence 3341, Ap
c 41	181.6	10.4	202001	9	US-09-734-674-3	Sequence 3, Appli
42	181.6	10.4	202001	14	US-10-274-990-3	Sequence 8024, Ap
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c 44	180.8	10.4	643	13	US-10-027-632-73930	Sequence 74764, A
c 45	180.8	10.4	643	13	US-10-027-632-74764	

## ALIGNMENTS

### RESULT 1

US-09-864-711-4  
; Sequence 4, Application US/09864711  
; Patent No. US20020077309A1  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkmut, Wayne  
; APPLICANT: Klingler, Tod M.  
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS  
; FILE REFERENCE: PB-0008-1 CIP  
; CURRENT APPLICATION NUMBER: US/09/864,711  
; CURRENT FILING DATE: 2001-05-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PERL Program  
; SEQ ID NO 4  
; LENGTH: 1739  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: 888309CB1  
US-09-864-711-4

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Best Local Similarity	100.0%	Pred. No. 0		
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Db	1	CCACGCGTCCGGGGCGATGGACCTGAGGTCAAGGAATGGGCTCTCCAAATCCATTG	60	
Qy	61	CTGTAAAGCCAGTGGGTTTTCAGGATAGGAGGCGAGGTTGGAGCAAAATTCAGAGTCA	120	
Db	61	CTGTAAAGCCAGTGGGTTTTCAGGATAGGAGGCGAGGTTGGAGCAAAATTCAGAGTCA	120	
Qy	121	GCTGCTGGGCGCGGCTCAGCAATGGTCTGACATGGCAGGCTTACCCCTGAGGGA	180	
Db	121	GCTGCTGGGCGCGGCTCAGCAATGGTCTGACATGGCAGGCTTACCCCTGAGGGA	180	
Qy	181	TGAAGACACTCAAGATGATAATTCGTATATAGTAGGAGCTATGTTTCATAGCCACAGG	240	

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241 TCCTTCATGTCAGGACATGGGACAGCTTCTGGGACAAAGTCACCTACTGTCCTGAGGCTG 300  
301 AATATCCTCATCTGTAATGAGGATAAGGTAAATTAATACCCACATACAGGCTATT 360  
301 AATATCCTCATCTGTAATGAGGATAAGGTAAATTAATACCCACATACAGGCTATT 360  
361 GTGAGAACATAATACAGACAGCTCAATTTGGGACAGCTCAGGAGTGATGAATTTCTGCTC 420  
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1621 GCAGAGAACTCACTTGAATCCAGAGGAGGAGGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1680  
1681 CACTCCAGCTGCGCAACACTGACCAAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1739  
1681 CACTCCAGCTGCGCAACACTGACCAAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1739

RESULT 2  
US-09-872-153-9  
; Sequence 9, Application US/09872153  
; Patent No. US20020082207A1  
; GENERAL INFORMATION:  
; APPLICANT: Hirst, Shannon K.  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Dillon, Devin C.  
; APPLICANT: Kalos, Michael D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF PANCREATIC CANCER  
; FILE REFERENCE: 210121.531  
; CURRENT APPLICATION NUMBER: US/09/872,153  
; CURRENT FILING DATE: 2001-05-31  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 9  
; LENGTH: 1420  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(1420)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-872-153-9

Query Match 78.98; Score 1372; DB 9; Length 1420;  
Best Local Similarity 96.68; Pred. No. 0;  
Matches 1372; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

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DB 61 TGGGTTTCCAGGATGAGGAGGAGGTTGGAGCAAAATTTCCAGTCACTGCTGAGGCG 120  
QY 133 TGGGCTCAGGAAATGTTCTGACATGGGAGGCTTACCCCTGAGGATGAAGACACTGA 192  
DB 121 TGGGCTCAGGAAATGTTCTGACATGGGAGGCTTACCCCTGAGGATGAAGACACTGA 180



QY 193 AGATGATAATTCGCTAATAGTAGAGCTATGTTTTCATAGCCACAGCGCTCTTCATGTCAG 252  
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QY 313 TGTAAATAGGATAGGTAATTAATAATACCCACATACAGGCTATGTCGAGAACTAAA 372  
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Db 361 TCAGAGCAGTCCCAATGGGCGAGCTCAGGAGGTGATGAATTTCTGCTCCAGGAGGTAAG 420  
QY 433 CAAGCAGAGTGAATGTCCTGGGTAGGATGTCATAGACAAACAGCACTAAGCCCTG 492  
Db 421 CAAGCAGAGTGAATGTCCTGGGTAGGATGTCATAGACAAACAGCACTAAGCCCTG 480  
QY 493 GACAGGATGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAATCTTAACAA 552  
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QY 553 GGGCCTTTGATTTGCTTTGGCAACAGATGCTTCTCTGAGCACACTACAAATCCCT 612  
Db 541 GGGCCTTTGATTTGCTTTGGCAACAGATGCTTCTCTGAGCACACTACAAATCCCT 600  
QY 613 ATGGAGAGAGTGTCTAGCCAGCAGGACAAAGAGCAGTACACATTTGGAAACG 672  
Db 601 ATGGAGAGAGTGTCTAGCCAGCAGGACAAAGAGCAGTACACATTTGGAAACG 660  
QY 673 GAGCCACAGTGTGAACAGGCGATGCTTAGATGTGCCAGCAGACACCTGGGAAATG 732  
Db 661 GAGCCACAGTGTGAACAGGCGATGCTTAGATGTGCCAGCAGACACCTGGGAAATG 720  
QY 733 AGGGTAGGAGAAACCAACAGCTGATGCTTGAAGACTCTTTCGCTCATGTAGTG 792  
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QY 793 GATAAGGCCCCAGAGATTCAGTGTGTTTCTGGGGTTTGGGCCATACACAGATTCAGAT 852  
Db 781 GATAAGGCCCCAGAGATTCAGTGTGTTTCTGGGGTTTGGGCCATACACAGATTCAGAT 840  
QY 853 TTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGTCCCAAGACAGTCTCAGTGA 912  
Db 841 TTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGTCCCAAGACAGTCTCAGTGA 900  
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Db 901 CTGAGTGAGCAGGTGGCCTGCCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGATGTC 960  
QY 973 CAGTGGGCCCATTTGCTTGACAGACATCCCTCTGTGCTGTGACTTTCATCTCCATCTCC 1032  
Db 961 CAGTGGGCCCATTTGCTTGACAGACATCCCTCTGTGCTGTGACTTTCATCTCCATCTCC 1020  
QY 1033 TTTCTCCACACCTTCCTCATTTAGTTTCTGGCTCTGAGCTCTGAAATTCACAA 1092  
Db 1021 TTTCTCCACACCTTCCTCATTTAGTTTCTGGCTCTGAGCTCTGAAATTCACAA 1080  
QY 1093 ATGSCACCATTCCTTATCCCAATCCATGCTTTTGGCTCTCTGCTTCCCTTAGCCTGGG 1152  
Db 1081 ATGSCACCATTCCTTATCCCAATCCATGCTTTTGGCTCTCTGCTTCCCTTAGCCTGGG 1140  
QY 1153 ATGCGTTACCTTTTACGTGACTTGCATAAAGCTCTACCCAGCTTTCATAATTCATACCA 1212  
Db 1141 ATGCGTTACCTTTTACGTGACTTGCATAAAGCTCTACCCAGCTTTCATAATTCATACCA 1200  
QY 1213 CTGTGAATTCCTTCCCTGACTTTCACCAAGAGACTCAGATAGACTCTTCTCTGCTCCGCC 1272  
Db 1201 CAGTGAATTCCTTCCCTGACTTTCACCAAGAGACTCAGATAGACTCTTCTCTGCTCCGCC 1260  
QY 1273 TGCATCTGTACATATCTCTGCTGTATCTTTATCATATTTGAAGTATAATAAATCTTTGAT 1332

Db 1261 TGCATCTGTACATATCTCTGCTGTATCTTTATCATATTTGAAGTATAATAAATCTTTGAT 1320  
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Db 1321 ATGTTGGTGTTTACACAAAGACCAAAATCTCTATGGGCCAAGTCCATGCTTTATTACT 1380  
QY 1393 TCATGTTGATGCACCTAGCATTTTGAGAGGTGGTTGGTA 1432  
Db 1381 TCATGTTGATGCACCTAGCATTTTGAGAGGTGGTTGGTA 1420

RESULT 3  
US-10-313-542-187  
; Sequence 187, Application US/10313542  
; Publication No. US20030120057A1  
; GENERAL INFORMATION:  
; APPLICANT: Roopa, Reddy  
; APPLICANT: Guegler, Karl, J.  
; APPLICANT: Au-Young, Janice  
; TITLE OF INVENTION: COMPOSITION FOR DETECTION OF GENES ENCODING MEMBRANE-ASSOCIAT  
; FILE REFERENCE: PA-0013 US  
; CURRENT APPLICATION NUMBER: US/10/313,542  
; CURRENT FILING DATE: 2002-12-05  
; PRIOR APPLICATION NUMBER: US/09/495,050  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/118,318  
; PRIOR FILING DATE: 1999-02-01  
; NUMBER OF SEQ ID NOS: 305  
; SOFTWARE: PERL Program  
; SEQ ID NO 187  
; LENGTH: 1249  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20030120057A1 2085633CB1  
US-10-313-542-187

Query Match 71.6%; Score 1245.4; DB 14; Length 1249;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1246; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 1 TCAGATGTCCTCCATGGGTAGGATGTCATAGACAAACAGCACTAAGCCCTGGACAGGGA 60  
QY 502 TGGATGAGCCTCCACTGAGATTATTTCCCTCCATCACTGAACTCTAACAGGCGCTTTG 561  
Db 61 TGGATGAGCCTCCACTGAGATTATTTCCCTCCATCACTGAACTCTAACAGGCGCTTTG 120  
QY 562 ATCTTGCTTTGGCAACAGATGCTTCTCTGAGCACTACAAAGTCCCTATGGAGAG 621  
Db 121 ATCTTGCTTTGGCAACAGATGCTTCTCTGAGCACTACAAAGTCCCTATGGAGAG 180  
QY 622 AGAGTGTCTAGCAGCAGCAAGAGAGAGTACACATTGGAAGAAACGAGCCACAG 681  
Db 181 AGAGTGTCTAGCAGCAGCAAGAGAGAGTACACATTGGAAGAAACGAGCCACAG 240  
QY 682 TGTGAACAGGGCGATGATGATGTCGCCAGAGAGACCCCTGGGAAATGAGGGTAGG 741  
Db 241 TGTGAACAGGGCGATGATGATGTCGCCAGAGAGACCCCTGGGAAATGAGGGTAGG 300  
QY 742 GAACAAACACACCTTGATCTCTTGAAGACTTTTCTGCTCATTTGATGGATFAGGCC 801  
Db 301 GAACAAACACACCTTGATCTCTTGAAGACTTTTCTGCTCATTTGATGGATFAGGCC 360  
QY 802 CCAGAGATTACAGTGTGTTTCTGGGTGGGCCCATCACAGAGTACAGATTGTTGGCTT 861  
Db 361 CCAGAGATTACAGTGTGTTTCTGGGTGGGCCCATCACAGAGTACAGATTGTTGGCTT 420  
QY 862 TAAGAGGCGCCTCCCTGTACCTGGATGGGTCCCAAGGACAGTCTCAGCTGACTGAGTGAG 921

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Db 421 TARAGGGCCCTCCCTGTAACCTGGATGGGCTCCAGGACAGCTCTCAGCTGACTGAGTGAG 480
QY 922 CAGTGGCCCTGGCTCAAGTCTCTCATCAGTGGCCAGCACAATGATGAGTGTCAGTGGGCC 981
Db 481 CAGTGGCCCTGGCTCAAGTCTCTCATCAGTGGCCAGCACAATGATGAGTGTCAGTGGGCC 540
QY 982 CCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACCTCCATCTCCCTCTCCAC 1041
Db 541 CCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACCTCCATCTCCCTCTCCAC 600
QY 1042 ACCCTGCTCTCAATTTAGTTTCCGCGCTCTGAACTCTGAAATTCACAAATGACCAAT 1101
Db 601 ACCCTGCTCTCAATTTAGTTTCCGCGCTCTGAACTCTGAAATTCACAAATGACCAAT 660
QY 1102 TCCCTCTATCCCATCTCCATGCTTGGCTCTCTGTTCCCTTAAAGCTGGGATGGGTCA 1161
Db 661 TCCCTCTATCCCATCTCCATGCTTGGCTCTCTGTTCCCTTAAAGCTGGGATGGGTCA 720
QY 1162 CTTCCTTACTGACTTGCACAAACCTTACCAGCTTTCAAATTCATPACCACTGTGAATC 1221
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Db 781 CTTCCTGACTTTCACAGAGACTCAGATAGACCTTCTCTCTGCTCCCTCCCTGCACTGT 840
QY 1282 ACATACCTCTGCTCTATCTTATCATATTGAAGTATATATAAAGTGTGATATGTTGGT 1341
Db 841 ACATACCTCTGCTCTATCTTATCATATTGAAGTATATATAAAGTGTGATATGTTGGT 900
QY 1342 TTATACAGACACAAAGAAATCCTCANGGCCAAGTCCATGCTTATTTACTTCATGTTGA 1401
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QY 1402 ATGCACTAGACTTGCAGAGCTGTGTTGTAAGTGTGCTCATGCTCTATATCCCAAGT 1461
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RESULT 4
US-10-060-036-3766/c
; Sequence 3766, Application US/10060036
; Publication No. US20030073144A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Persing, David H.
; APPLICANT: Hepler, William T.
; APPLICANT: Jiang, Yuqiu
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.566
; CURRENT APPLICATION NUMBER: US/10/060,036
; CURRENT FILING DATE: 2002-01-30
; NUMBER OF SEQ ID NOS: 4560
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4049
; LENGTH: 402
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-060-036-4049

Query Match 23.1%; Score 402; DB 14; Length 402;
Best Local Similarity 100.0%; Pred. No. 1.6e-118;
Matches 402; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 880 ACCTGGATGGGCTCCAGGACAGTCTCAGCTGACTGAGTGAGCGAGTGGCTGCTCAAG 939
Db 402 ACCTGGATGGGCTCCAGGACAGTCTCAGCTGACTGAGTGAGCGAGTGGCTGCTCAAG 343
QY 940 TCTTCATCAGTGGCCAGCACAATGATGAGTGTCCAGTGGGCCCCCATTTGCTTGCAGACA 999
Db 342 TCTTCATCAGTGGCCAGCACAATGATGAGTGTCCAGTGGGCCCCCATTTGCTTGCAGACA 283
QY 1000 TCCCTCTGCTCTGACTTTCATCTCCATCTCTCTCTCCACAGCTGCTGCTCAATTTAG 1059
Db 282 TCCCTCTGCTCTGACTTTCATCTCCATCTCTCTCTCCACAGCTGCTGCTCAATTTAG 223
QY 1060 GTTCCTGGCGCTCTGAACTCTGAAATTCACAAATGACCAATTCCTCTATCCCATCTCC 1119
Db 222 GTTCCTGGCGCTCTGAACTCTGAAATTCACAAATGACCAATTCCTCTATCCCATCTCC 163
QY 1120 ATGCTTTGGCTCTCCCTGTTCCCTTAGCTGGGATGGTTCACCTGCTTACTGACTTGC 1179
Db 162 ATGCTTTGGCTCTCCCTGTTCCCTTAGCTGGGATGGTTCACCTGCTTACTGACTTGC 103
QY 1180 AAAACTCTCTCCACAGTTCAAATTCATACCACTGTGAATCCTTCCCTGACTTTCACCA 1239
Db 102 AAAACTCTCTCCACAGTTCAAATTCATACCACTGTGAATCCTTCCCTGACTTTCACCA 43
QY 1240 GAGACTCAGATAGACCTTCTCTCTGCTCCCGCTGCACTGT 1281
Db 42 GAGACTCAGATAGACCTTCTCTCTGCTCCCGCTGCACTGT 1

RESULT 5
US-10-060-036-4049/c
; Sequence 4049, Application US/10060036
; Publication No. US20030073144A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Persing, David H.
; APPLICANT: Hepler, William T.
; APPLICANT: Jiang, Yuqiu
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.566
; CURRENT APPLICATION NUMBER: US/10/060,036
; CURRENT FILING DATE: 2002-01-30
; NUMBER OF SEQ ID NOS: 4560
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4049
; LENGTH: 402
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-060-036-4049

Query Match 23.1%; Score 402; DB 14; Length 402;
Best Local Similarity 100.0%; Pred. No. 1.6e-118;
Matches 402; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 880 ACCTGGATGGGCTCCAGGACAGTCTCAGCTGACTGAGTGAGCGAGTGGCTGCTCAAG 939
Db 402 ACCTGGATGGGCTCCAGGACAGTCTCAGCTGACTGAGTGAGCGAGTGGCTGCTCAAG 343
QY 940 TCTTCATCAGTGGCCAGCACAATGATGAGTGTCCAGTGGGCCCCCATTTGCTTGCAGACA 999
Db 342 TCTTCATCAGTGGCCAGCACAATGATGAGTGTCCAGTGGGCCCCCATTTGCTTGCAGACA 283
QY 1000 TCCCTCTGCTCTGACTTTCATCTCCATCTCTCTCTCCACAGCTGCTGCTCAATTTAG 1059
Db 282 TCCCTCTGCTCTGACTTTCATCTCCATCTCTCTCTCCACAGCTGCTGCTCAATTTAG 223
QY 1060 GTTCCTGGCGCTCTGAACTCTGAAATTCACAAATGACCAATTCCTCTATCCCATCTCC 1119
Db 222 GTTCCTGGCGCTCTGAACTCTGAAATTCACAAATGACCAATTCCTCTATCCCATCTCC 163
QY 1120 ATGCTTTGGCTCTCCCTGTTCCCTTAGCTGGGATGGTTCACCTGCTTACTGACTTGC 1179
Db 162 ATGCTTTGGCTCTCCCTGTTCCCTTAGCTGGGATGGTTCACCTGCTTACTGACTTGC 103
QY 1180 AAAACTCTCTCCACAGTTCAAATTCATACCACTGTGAATCCTTCCCTGACTTTCACCA 1239
Db 102 AAAACTCTCTCCACAGTTCAAATTCATACCACTGTGAATCCTTCCCTGACTTTCACCA 43
QY 1240 GAGACTCAGATAGACCTTCTCTCTGCTCCCGCTGCACTGT 1281
Db 42 GAGACTCAGATAGACCTTCTCTCTGCTCCCGCTGCACTGT 1
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US-10-027-632-250938/c  
; Sequence 250938, Application US/10027632  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; POLYMORPHISMS IN THE HUMAN GENOME  
; FILE REFERENCE: 108827.129  
; CURRENT APPLICATION NUMBER: US/10/027,632  
; CURRENT FILING DATE: 2002-04-30  
; PRIOR APPLICATION NUMBER: US 60/218,006  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: US 60/193,483  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: US 60/185,218  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/167,363  
; PRIOR FILING DATE: 1999-11-23  
; PRIOR APPLICATION NUMBER: US 60/156,358  
; PRIOR FILING DATE: 1999-08-09  
; NUMBER OF SEQ ID NOS: 325720  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 250938  
; LENGTH: 2655  
; TYPE: DNA  
; ORGANISM: Human  
US-10-027-632-250938

Query Match 11.1%; Score 192.6; DB 13; Length 2655;  
Best Local Similarity 79.4%; Pred. No. 1.4e-50;  
Matches 258; Conservative 0; Mismatches 54; Indels 13; Gaps 2;  
QY 1416 TGAGAGGTGGTGTGTAAGTGGCTGATCCCAACAGCTTTGGGAGGCTGAGG 1475  
DB 1934 TGTTAGAGGCTGGGCACAGTGGCTTACCCCTGTATCCAGCAGCTTTGGGAGGCTGAGG 1875  
QY 1476 CGGCAGATCGCTTGAGGTGAGGAGTTGAAACCCAGCTGGCCAAATATGGAACACCCCA 1535  
DB 1874 TCTCTACTAAATAACAAATTTAGCCAGGCTGGTGGCGATGCTGTAGTC----- 1762  
QY 1536 TCTTTA-TAAATAACAGAAATAGCCAGGTGGTGGCTGATCCCAATGCTGATCCCATGCC 1594  
DB 1814 TCTCTACTAAATAACAAATTTAGCCAGGCTGGTGGCGATGCTGTAGTC----- 1762  
QY 1595 TGTATCCAGCTGGGAGGCTGAGGAGGAGTGAATCACTTGAATCCAGGAGGCGAGAGT 1654  
DB 1761 -----TTAGCTACTCAGAGAGCTGATGAGGAGATGGCTTGAACCCAGGAGCGAGGT 1707  
QY 1655 TGCAGTGAAGTGAAGTGGACCACTGCTCCAGCTGGGCAACACTGAGCAAAAGTCC 1714  
DB 1706 TGCAGTGAAGTGAAGTGGACCACTGCTCCAGCTGGGCAACACTGAGCAAAAGTCC 1714  
QY 1715 TGTCTGTAATAAATAAATAAATAA 1739  
DB 1646 CAAAAAATAAATAAATAAATAAATAA 1622

RESULT 10  
US-10-017-161-2143/c  
; Sequence 2143, Application US/10017161  
; Publication No. US20030143668A1  
; GENERAL INFORMATION:  
; APPLICANT: SUWA, MAKIKO  
; APPLICANT: ASAI, KIYOSHI  
; APPLICANT: AKIYAMA, YUTAKA  
; APPLICANT: ASURATANI, HIROYUKI  
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS  
; FILE REFERENCE: 084335/0152  
; CURRENT APPLICATION NUMBER: US/10/017,161  
; CURRENT FILING DATE: 2002-12-18  
; PRIOR APPLICATION NUMBER: JP 2001/246789  
; PRIOR FILING DATE: 2001-06-18  
; NUMBER OF SEQ ID NOS: 2430  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2143  
; LENGTH: 108317  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; NAME/KEY: source  
; LOCATION: (1)..(108316)  
; FEATURE:

US-10-027-632-250938/c  
; Sequence 250938, Application US/10027632  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; POLYMORPHISMS IN THE HUMAN GENOME  
; FILE REFERENCE: 108827.129  
; CURRENT APPLICATION NUMBER: US/10/027,632  
; CURRENT FILING DATE: 2002-04-30  
; PRIOR APPLICATION NUMBER: US 60/218,006  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 60/198,676  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: US 60/193,483  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: US 60/185,218  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/167,363  
; PRIOR FILING DATE: 1999-11-23  
; PRIOR APPLICATION NUMBER: US 60/156,358  
; PRIOR FILING DATE: 1999-08-09  
; NUMBER OF SEQ ID NOS: 325720  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 250938  
; LENGTH: 2655  
; TYPE: DNA  
; ORGANISM: Human  
US-10-027-632-250938

Query Match 11.1%; Score 192.6; DB 13; Length 2655;  
Best Local Similarity 79.4%; Pred. No. 1.4e-50;  
Matches 258; Conservative 0; Mismatches 54; Indels 13; Gaps 2;  
QY 1416 TGAGAGGTGGTGTGTAAGTGGCTGATCCCAACAGCTTTGGGAGGCTGAGG 1475  
DB 1934 TGTTAGAGGCTGGGCACAGTGGCTTACCCCTGTATCCAGCAGCTTTGGGAGGCTGAGG 1875  
QY 1476 CGGCAGATCGCTTGAGGTGAGGAGTTGAAACCCAGCTGGCCAAATATGGAACACCCCA 1535  
DB 1874 TCTCTACTAAATAACAAATTTAGCCAGGCTGGTGGCGATGCTGTAGTC----- 1762  
QY 1536 TCTTTA-TAAATAACAGAAATAGCCAGGTGGTGGCTGATCCCAATGCTGATCCCATGCC 1594  
DB 1814 TCTCTACTAAATAACAAATTTAGCCAGGCTGGTGGCGATGCTGTAGTC----- 1762  
QY 1595 TGTATCCAGCTGGGAGGCTGAGGAGGAGTGAATCACTTGAATCCAGGAGGCGAGAGT 1654  
DB 1761 -----TTAGCTACTCAGAGAGCTGATGAGGAGATGGCTTGAACCCAGGAGCGAGGT 1707  
QY 1655 TGCAGTGAAGTGAAGTGGACCACTGCTCCAGCTGGGCAACACTGAGCAAAAGTCC 1714  
DB 1706 TGCAGTGAAGTGAAGTGGACCACTGCTCCAGCTGGGCAACACTGAGCAAAAGTCC 1714  
QY 1715 TGTCTGTAATAAATAAATAAATAA 1739  
DB 1646 CAAAAAATAAATAAATAAATAAATAA 1622

RESULT 9  
US-10-027-632-250938/c  
; Sequence 250938, Application US/10027632  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; POLYMORPHISMS IN THE HUMAN GENOME  
; FILE REFERENCE: 108827.129  
; CURRENT APPLICATION NUMBER: US/10/027,632  
; CURRENT FILING DATE: 2002-04-30  
; PRIOR APPLICATION NUMBER: US 60/218,006  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 60/198,676  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: US 60/193,483  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: US 60/185,218  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/167,363  
; PRIOR FILING DATE: 1999-11-23  
; PRIOR APPLICATION NUMBER: US 60/156,358  
; PRIOR FILING DATE: 1999-08-09  
; NUMBER OF SEQ ID NOS: 325720  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 250938  
; LENGTH: 2655  
; TYPE: DNA  
; ORGANISM: Human  
US-10-027-632-250938

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; NAME/KEY: CDS
; LOCATION: (201)..(320)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (6586)..(6893)
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; NAME/KEY: CDS
; LOCATION: (11403)..(11625)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (35649)..(35883)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (38436)..(38569)
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; NAME/KEY: CDS
; LOCATION: (49760)..(49948)
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; NAME/KEY: CDS
; LOCATION: (56862)..(57074)
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; LOCATION: (60383)..(60533)
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; NAME/KEY: CDS
; LOCATION: (62136)..(62275)
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; NAME/KEY: CDS
; LOCATION: (75449)..(75567)
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; NAME/KEY: CDS
; LOCATION: (76611)..(76827)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (93827)..(93944)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (99913)..(100084)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (107990)..(108116)
;
US-10-017-161-2143

Query Match
Best Local Similarity 11.0%; Score 190.8; DB 12; Length 108317;
Matches 285; Conservative 0; Mismatches 102; Indels 13; Gaps 2;

QY 1340 TGTTCACACAGACCAAGAAATCCTCATGGGCAAGTCCATGCTTATTACTTTCATGTT 1399
DB 107593 TGTATGCCACACACAGAGAGAAATGNCACAGAACTGCAGTTGAAGAGTCCAGCT 107534
QY 1400 GAATGCACCTAGCATTGAGAGGTGGTGGTAAAGTGGCTCATGCTGTAATCCCAACA 1459
DB 107533 GAGGGCCCATAGCATGATTAAAGG-GCCAGGCACAGTGGCTCATGCTGTAATCCAGCA 107475
QY 1460 GTTTGGAGGCTGAGGCGGCGAGATCGCTTGAGGTGAGAGTTGAAACGAGCTGGCCA 1519
DB 107474 CTTTGAGAGGCGAGGTGGGCGAGATCCTTGAGGTGAGAGTTGAAACGAGCTGGCCA 107415
QY 1520 ATATGGCAAAACCCCATCTTTATAAAATACAGAAATAGCCAGGTGTGGTGGCTATGC 1579
DB 107414 ACATGGCAAAACCCCATCTCTACTATAAAATACAGAAATAGCCAGGTGTGGTGGCTATGC 107355
QY 1580 CTGTAAATCCCATGCTGTAAATCCAGGCTTGGAGGCTGAGGAGAGATCACTTGAT 1639
DB 107354 CTGTAAATCCCA-----GCTACTCGGGAGGCTGAGGAGAGAAATCACTTGAAAC 107307
QY 1640 CCAGGAGGAGAGGTGAGTGAATGAGATTGAGACCACTGCACTCCAGCTGGGCAACA 1699
DB 107306 CTGGAGGAGAGGTGAGTGAATGAGACCACTGCACTCCAGCTGGGCAACA 107247
QY 1700 CTGAGCAAACTGCTGCTGTAATAAAAAA 1739
DB 1700 CTGAGCAAACTGCTGCTGTAATAAAAAA 1739

Db 107246 CAGTGAGATCTGTCTCAAAAAAAAAAAAAAAAAAGAGAGA 107207

RESULT 11
US-10-017-161-2429
; Sequence 2429, Application US/10017161
; Publication No. US20030143668A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 084335/0152
; CURRENT APPLICATION NUMBER: US/10/017,161
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: JP 2001/246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2429
; LENGTH: 35425
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: source
; LOCATION: (1)..(35425)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (201)..(293)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (21462)..(21603)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (23918)..(24055)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (26460)..(26597)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (26868)..(27016)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (35125)..(35225)
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (35270)..(35425)
;
OTHER INFORMATION: a, t, c, g, unknown or other
US-10-017-161-2429

Query Match
Best Local Similarity 10.9%; Score 189.4; DB 12; Length 35425;
Matches 271; Conservative 0; Mismatches 81; Indels 13; Gaps 2;

QY 1376 TCCATGCCCTTATTTACTTTCATGTTGAATGCCACCTAGCATTTGAGAAGGTGGTTGTAAG 1435
DB 16431 TCCACACCTGTCTTAGTTAGTTGTTGTTGCTATAAAGGAATAACTGGGGCTGGGTGCAG 16490
QY 1436 TGGCTCATGCTGTAAATCCACACAGTTTGGGAGGCTGAGCGCGGAGATCCCTTTAGGTC 1495
DB 16491 TGGCTCAGCGCTGTAAATCCACAGCTTTGGGAGCGCAAGGTGGTAGATCACTTTAGGTC 16550
QY 1496 AGGATTTTGAACCCAGCTGGGCAATATGCAAAACCCCATCTTTA-TAAAAATACAGAA 1554
DB 16551 AGGATTTTGAACAGAGCTGGGCAACATGTTGAACCCCGTCTCTACTATAAATAACAAAA 16610
QY 1555 ATTACCCAGGTGGTGGGTCTGATGCTGTAATCCCATGCTGTAATCCAGCTTGGGAG 1614
DB 16611 GTTAGCGGGTATGGTGACGCGCTGTAGTCCA-----GCTACTTTGGGAG 16658
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QY 782 CGTGGTGGCCAACTGAGTCCACTGGATCTACTGGCTGGGCGCCACTCTCTGGCTG 841  
DB 745 CGGTGGTGGCCAACTGAGTCCACTGGATCTACTGGCTGGGCGCCACTCTCTGGCTG 804  
QY 842 GCCTCTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 901  
DB 805 GCCTCTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 864  
QY 902 TGAAGGCTGGTGAAGCAGAGCTGGTGGGATTCCTGCTCAGGTGCTCTCAGCTCAC 961  
DB 865 TGAAGGCTGGTGAAGCAGAGCTGGTGGGATTCCTGCTCAGGTGCTCTCAGCTCAC 924  
QY 962 CTGTCCAGACTGAGGACAGGGAGTTCCTGATTTCTCCAGGCGAGAGGCCAGAGG 1021  
DB 925 CTGTCCAGACTGAGGACAGGGAGTTCCTGATTTCTCCAGGCGAGAGGCCAGAGG 984  
QY 1022 AGGACCCCGCTCTCCAGTGGTGGGCTGCTCTCAGATAGACTGCTGAGGAG 1081  
DB 985 AGGACCCCGCTCTCCAGTGGTGGGCTGCTCTCAGATAGACTGCTGAGGAG 1044  
QY 1082 GCTAGGCTCTTGGATTCCTGCTCTCAGATAGACTGCTGAGGAG 1141  
DB 1045 GCTAGGCTCTTGGATTCCTGCTCTCAGATAGACTGCTGAGGAG 1104  
QY 1142 CCCGACTGCCAGAGAGCTGCAAAACACACACACAGCGTGTTCCTGAGAGGAA 1201  
DB 1105 CCCGACTGCCAGAGAGCTGCAAAACACACACACAGCGTGTTCCTGAGAGGAA 1164  
QY 1202 GTCCCGAGTGGCAGAGGAGCTGCTCTCAGATAGACTGCTGAGGAG 1261  
DB 1165 GTCCCGAGTGGCAGAGGAGCTGCTCTCAGATAGACTGCTGAGGAG 1224  
QY 1262 CTGTCTGATGCTTTGTTGGGGCGCTGGCCACTTCCTGCTCTCAGATAGACT 1321  
DB 1225 CTGTCTGATGCTTTGTTGGGGCGCTGGCCACTTCCTGCTCTCAGATAGACT 1284  
QY 1322 CACTTGAATAAATAGTCCAGTGTTTC 1349  
DB 1285 CACTTGAATAAATAGTCCAGTGTTTC 1312

RESULT 3

US-09-610-906-6/c  
; Sequence 6, Application US/09610906  
; Patent No. 6566066  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkman, Wayne  
; APPLICANT: Klingner, Tod M.  
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT  
; FILE REFERENCE: PC-0012 CIP  
; CURRENT APPLICATION NUMBER: US/09/610,906  
; PRIOR FILING DATE: 2000-07-06  
; PRIOR FILING DATE: 09/226,994  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PERL Program  
; SEQ ID NO 6  
; LENGTH: 562  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. 6566066 227165F1  
; NAME/KEY: unsure  
; LOCATION: 525, 550  
; OTHER INFORMATION: a, t, c, g, or other  
; PUBLICATION INFORMATION:  
US-09-610-906-6

Query Match 35.0%; Score 473.8; DB 4; Length 562;  
Best Local Similarity 95.4%; Pred. No. 2.4e-116;

Matches 521; Conservative 0; Mismatches 18; Indels 7; Gaps 3;  
QY 816 CTACTGCTGGGCGCA--CTCTGGCTGGCTGGCTGGTGG---ACTGCTCATTAGTGC 870  
DB 546 CTACTGCTGGGCGCAACTCCNTGGCTGGCTGGCTGGTGGTGGTGGTGGTGGTGG 487  
QY 871 TTCAATTTGA--GATGGGAAGACCCCTCATCTCTGAAGCTCGGTGAAGCAGAGCTCG 928  
DB 486 TTCAATTTGAAGTGGGAAGACCCCTCATCTCTGAAGCTCGGTGAAGCAGAGCTCG 427  
QY 929 GGATTCCTGCTGCTCAGAGTCTCTCAGCTCACCTCTCCAGACTGAGAGAGGAGTT 988  
DB 426 GGATTCCTGCTGCTCAGAGTCTCTCAGCTCACCTCTCCAGACTGAGAGAGGAGTT 367  
QY 989 CCTGCATTTCTCCAGGCGAGGCGCCAGAGAGGAGCCCTGCTTCCACTGCTTGG 1048  
DB 366 CCTGCATTTCTCCAGGCGAGGCGCCAGAGAGGAGCCCTGCTTCCACTGCTTGG 307  
QY 1048 CCTGCATTTCTCAGATAGACTGCTGCTGAGAGGCTCTAGGTTCTTGGAAATCTCTTGG 1108  
DB 306 CCTGCATTTCTCAGATAGACTGCTGCTGAGAGGCTCTAGGTTCTTGGAAATCTCTTGG 247  
QY 1109 CTCATCAGACACCCAGCTGGGAGACACGCTGCGGCTGCTGCTGCTGCTGCTGCTG 1168  
DB 246 CTCATCAGACACCCAGCTGGGAGACACGCTGCGGCTGCTGCTGCTGCTGCTGCTG 187  
QY 1169 CACCACACACGAGCTGTTCTTGAGAGGAATGTCCTGCTGCTGCTGCTGCTGCTGCT 1228  
DB 186 CACCACACACGAGCTGTTCTTGAGAGGAATGTCCTGCTGCTGCTGCTGCTGCTGCT 127  
QY 1229 TCTGCATCAGCTCATTTCCCGACCCCATTTCTGCTGCTGCTGCTGCTGCTGCTGCT 1288  
DB 126 TCTGCATCAGCTCATTTCCCGACCCCATTTCTGCTGCTGCTGCTGCTGCTGCTGCT 67  
QY 1289 GGCACATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1348  
DB 66 GGCACATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 7  
QY 1349 CTTTCC 1354  
DB 6 CTTTCC 1

RESULT 4

US-09-610-906-4  
; Sequence 4, Application US/09610906  
; Patent No. 6566066  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkman, Wayne  
; APPLICANT: Klingner, Tod M.  
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT  
; FILE REFERENCE: PC-0012 CIP  
; CURRENT APPLICATION NUMBER: US/09/610,906  
; PRIOR FILING DATE: 2000-07-06  
; PRIOR FILING DATE: 09/226,994  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PERL Program  
; SEQ ID NO 4  
; LENGTH: 274  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. 6566066 3834902H1  
; NAME/KEY: unsure  
; LOCATION: 209  
; OTHER INFORMATION: a, t, c, g, or other  
; PUBLICATION INFORMATION:  
US-09-610-906-4

Query Match 19.3%; Score 261; DB 4; Length 274;

Best Local Similarity 99.3%; Pred. No. 5e-60;  
Matches 272; Conservative 0; Mismatches 1; Indels 1; Gaps 1;  
QY 15 CGGCATCTTCTCCAGCTGGCAGAGCAAGGGGGCTGTGAATTAATCAAGGTGG 74  
Db 1 CGGCATCTTCTCCAGCTGGCAGAGCAAGGGGGCTGTGAATTAATCAAGGTGG 60  
QY 75 GGTGGGGCTTCTATATCTGAGCTGCTCCACCCGCTCTCTGTCCTTTTCCCT 134  
Db 61 GGTGGGGCTTCTATATCTGAGCTGCTCCACCCGCTCTCTGTCCTTTTCCCT 120  
QY 135 ACGGCAGATAGCATGTGTGAGCTGAATTTGGCAATGACAGGCCAGGAGCGAGCT 194  
Db 121 ACGGCAGATAGCATGTGTGAGCTGAATTTGGCAATGACAGGCCAGGAGCGAGCT 180  
QY 195 GGTGGGAGTGGCAGTGTCTGTGTAGCAAGCGTTTGTGAGCCATGTCTGTGCACT 254  
Db 181 GGTGGGAGTGGCAGTGTCTGTGTAGCAAGCGTTTGTGAGCCATGTCTGTGCACT 240  
QY 255 GCT-GGGCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 287  
Db 241 GCTGGGCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 274

RESULT 5  
US-09-610-906-7  
; Sequence 7, Application US/09610906  
; Patent No. 6566066  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkmut, Wayne  
; APPLICANT: Klingner, Tod M.  
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT  
; FILE REFERENCE: PC-0012 CIP  
; CURRENT APPLICATION NUMBER: US/09/610,906  
; CURRENT FILING DATE: 2000-07-06  
; PRIOR APPLICATION NUMBER: 09/226,994  
; PRIOR FILING DATE: 1999-01-07  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PERL Program  
; SEQ ID NO 7  
; LENGTH: 620  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
; FEATURE:  
; NAME/KEY: misc.feature  
; OTHER INFORMATION: Incyte ID No. 6566066 701887401H1  
; PUBLICATION INFORMATION:  
US-09-610-906-7

Query Match 18.6%; Score 251.4; DB 4; Length 620;  
Best Local Similarity 77.8%; Pred. No. 2.4e-57;  
Matches 329; Conservative 0; Mismatches 91; Indels 3; Gaps 2;  
QY 580 CAGGGCAGGTGGCAGGCGGTGGTGGCAGATCATCTGACAGCTGTGGCCGCTG 639  
Db 57 CAGCAGAGTGGCAGAACCCCTGGGGTAGAGATGTTATACAGCTGTGGTATG 116  
QY 640 GCTGTATGATGGTGGCAGTATGAGAGCAAGGCCCTCTGGCCGCTCTCCATC 699  
Db 117 GCTGTATGATGGTGGCAGTATGAGAGCAAGGCCCTCTGGCCGCTCTCCATC 176  
QY 700 GCTTTTGGCTGACCTGATATCTGCTGGGGCCCTGTCTGGAGCTGCATGAT 759  
Db 177 GCTTTTGGCTGATGATATCTGCTGGAGTGGTGGATCTCTGGAGCTGCATGAT 236  
QY 760 CCGCCGCTGCTTTTGGACTCGGTGGTGGCCAACTGGAATCTCCACTGGATCTAC 819  
Db 237 CTTGCTGCTGCTTTGGACTCTGCTGCTGGCTGCTGCTGCTGCTGCTGCTGCT 296  
QY 820 TGGCTGGCCCACTCTCTGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCT 879  
Db 297 TGGCTGGCCCACTCTCTGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCT 356

QY 880 GATGGGAAGACCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 939  
Db 357 GATGGGAAGACCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 416  
QY 940 GCTCCAGGTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 999  
Db 417 G-CTGGAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 473  
QY 1000 TGC 1002  
Db 474 TGC 476

RESULT 6  
US-09-610-906-3  
; Sequence 3, Application US/09610906  
; Patent No. 6566066  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkmut, Wayne  
; APPLICANT: Klingner, Tod M.  
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT  
; FILE REFERENCE: PC-0012 CIP  
; CURRENT APPLICATION NUMBER: US/09/610,906  
; CURRENT FILING DATE: 2000-07-06  
; PRIOR APPLICATION NUMBER: 09/226,994  
; PRIOR FILING DATE: 1999-01-07  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PERL Program  
; SEQ ID NO 3  
; LENGTH: 233  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc.feature  
; OTHER INFORMATION: Incyte ID No. 6566066 2774542H1  
; PUBLICATION INFORMATION:  
US-09-610-906-3

Query Match 17.2%; Score 233; DB 4; Length 233;  
Best Local Similarity 100.0%; Pred. No. 1.2e-52;  
Matches 233; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGTAGCCCTCTGTGGCATTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 60  
Db 1 GGTAGCCCTCTGTGGCATTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 60  
QY 61 AATTCAGGTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCT 120  
Db 61 AATTCAGGTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCT 120  
QY 121 GTCCCTTTTCCCTACGCGCAGATAGCCATGTGTAGCTGAATTTGGCAATGACAAGGCC 180  
Db 121 GTCCCTTTTCCCTACGCGCAGATAGCCATGTGTAGCTGAATTTGGCAATGACAAGGCC 180  
QY 181 AGGAGCCAGCGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 233  
Db 181 AGGAGCCAGCGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 233

RESULT 7  
US-09-610-906-8  
; Sequence 8, Application US/09610906  
; Patent No. 6566066  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkmut, Wayne  
; APPLICANT: Klingner, Tod M.  
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT  
; FILE REFERENCE: PC-0012 CIP  
; CURRENT APPLICATION NUMBER: US/09/610,906  
; CURRENT FILING DATE: 2000-07-06

```
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 8
; LENGTH: 279
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6566066 701624411H1
; PUBLICATION INFORMATION:
US-09-610-906-8

Query Match 13.5%; Score 183.2; DB 4; Length 279;
Best Local Similarity 79.0%; Pred. No. 2.1e-39;
Matches 218; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

QY 529 GAGGAGAGGTTCTGGAATGCATCTGGGGGGGCTTTGTGACAGTCCAGGAGCGGGCAG 588
Db 4 GAGGAAGGTTCTGGAATGCGTCTGGGGCAGGCTTTGCCATAGTCCAGGAGCAGGAGCAG 63

QY 589 GTGGCAGGGGCTTGGTGGCAGAGATCATCTGACAGCGTCTGGCCCTGGCTGTATGC 648
Db 64 GTGGCAGAGAGCCCTGGGGTAGAGATCGTTATGACGATGCTGTTGTTGCTATGGCTGTGT 123

QY 649 ATGGGTGCCATCAATGAGAGACAAAGGGCCCTCTGGCCCGCTTCTCCATCGGCTTTGCC 708
Db 124 ATGGGTGCCATCAAGAGAGACCAATGGGTCCCTAGCCCAATTCCTCCATTTGTTCT 183

QY 709 GTACCGTGGATATCTGGTGGGGGCGCCCTGTGTGTGAGGCTCATGAAATCCCGCCGT 768
Db 184 GTCAATTTGGATATCTGGCAAGTGTGGGATCTCTGGAGCCTGCATGAACCCGTGCTGT 243

QY 769 GCTTTTGGACCTGGGTGGTGGCCCAACCACTTGGAC 804
Db 244 GCCTTGGACCTGGTGTGATGGCTGCTACTGGGAC 279

RESULT 8
US-09-610-906-10
; Sequence 10, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmut, Wayne
; APPLICANT: Klinger, Tod M.
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/09/610,906
; CURRENT FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 10
; LENGTH: 325
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6566066 701652485H1
; PUBLICATION INFORMATION:
US-09-610-906-10

Query Match 9.9%; Score 134.4; DB 4; Length 325;
Best Local Similarity 72.0%; Pred. No. 2e-26;
Matches 190; Conservative 0; Mismatches 71; Indels 3; Gaps 1;

QY 137 GGCAGATGACATGCTGAGCTGAAATTTGGCAATGACAGCCAGGAGCCAGCGGTGG 196
Db 62 GGGAGAGCGGATGTTAGTATGACCTACCTGATGATCAAGGGGAGGAGCAACATGG 121
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QY 197 GTGCAGGTGGC---GAGTGTCTGTGACGAACGGTTTGTGACGCCATGCTCTGTGCGAAC 253
Db 122 CTGACAGTTACCATGGCATGTCTGTGTATGAGCAGTACATACACCGTGTGTGTGGAC 181

QY 254 TGCTGGGCTGTCTCTCTTCATCTTCATCTGCGGTGCCCTGCTGTCATTTGAGAATGGGACG 313
Db 182 TTTTGGGCTCGGCTCTCTTCATCTTCATCTTCATTTGCGGTGCTCTATCGGTTCATCGAGAACAGTCCAA 241

QY 314 AACTGGGCTGTGACAGCGGCCCTGGCCACGCGGCTGGCTTTGGGGCTCGGTGATTCGA 373
Db 242 ATACTGGGCTCTCTGACGCTGCCCTGGCTCATGGCTTGGGCTTGGGGCTCATCTGCTA 301

QY 374 CGCTGGGAATATCATGTGGTGGAC 397
Db 302 CCTTGGGGAACATCAGCGGTGGAC 325

RESULT 9
US-09-610-906-9
; Sequence 9, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmut, Wayne
; APPLICANT: Klinger, Tod M.
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/09/610,906
; CURRENT FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 9
; LENGTH: 159
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6566066 701336587H1
; PUBLICATION INFORMATION:
US-09-610-906-9

Query Match 8.4%; Score 114.2; DB 4; Length 159;
Best Local Similarity 82.4%; Pred. No. 3.4e-21;
Matches 131; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

QY 495 GCTCGGGGCTGCTTGGCCAAAGCGGTGAGTCTCTGAGGAGAGGTCTTGAATGCATCTGG 554
Db 1 GATCGGAGCTGCTGCTGCTAAGTGGTGAATCCAGAGAAAGGTCTTGAATGCTCTGG 60

QY 555 GCGGCGCTTTGTGACAGTCCAGGAGCAGGCGGAGTGGCGGCGCTTGGTGGCAGAGAT 614
Db 61 GGCAGCCTTTGCCATAGTCCAGGAGCAGGAGCAGGAGCAGGAGCAGGAGCAGGAGTGG 120

QY 615 CATCTGAGCAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 653
Db 121 CGTATGAGATGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 159

RESULT 10
US-09-372-422A-23
; Sequence 23, Application US/09372422A
; Patent No. 6313375
; GENERAL INFORMATION:
; APPLICANT: Rudolf Jung
; APPLICANT: Francois Barrieu
; TITLE OF INVENTION: Maize Aquaporins and Uses Thereof
; FILE REFERENCE: 0919
; CURRENT APPLICATION NUMBER: US/09/372,422A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: US 60/098,692
; PRIOR FILING DATE: 1998-08-31
```

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; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 1193
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (88)...(838)
US-09-372-422A-23

Query Match      8.1%; Score 109.4; DB 4; Length 1193;
Best Local Similarity 50.6%; Pred. No. 1.4e-19;
Matches 300; Conservative 0; Mismatches 281; Indels 12; Gaps 1;

QY      269 TCTTCATCTTCATCGGGTGCCCTGTCGGTCATTGAGAAATGGAGCGACACATCGGUTGCTGC 328
           || |||| ||||| ||| |||
Db      200 TCCGATCGCTTCGGGCAACTGACGAATGGCGGGCGCTGGACCTCGCGGACTGCTGG 259

QY      329 AGCCGGCCCTGGCCACGGGCTGCTTTGGGGCTCGTCATGTCACAGCTGGGGAATATCA 388
           || |||| ||||| ||||| ||| |||
Db      260 CGATCGGGTGGCGCAGCGGTCGCGCCCTCTTCTGGGGCTCTCCGTGGCCGCGAACAACCT 319

QY      389 GTGGTGAGACATTCAACCCCTCGGCTGCCAGCAGCATGTCATCGAGGCGCTCAACG 448
           || |||| ||||| ||||| ||||| |||
Db      320 CGGGGGCCACCTGGAACCCCGCGCTGACGTTGCGGCTGGCCGTGGSGGECACATCACCG 379

QY      449 TGGTATCTCTCTCCCGTACTGGGTCTCACAGCTCTCTCGGGGGAGATGCTCGGGGCTGCCT 508
           || |||| ||||| ||||| ||||| |||
Db      380 TCCTCACCGCCCTTCTACTGSGTGGCCCGACGCTCTGGGGCGGCTCCGTGCGTGCCTGC 439

QY      509 TGGCCAAGGCGGTGAGTCCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGGCCCTTTGTGA 568
           || |||| ||||| ||||| ||||| |||
Db      440 TCCTCAGGTTCTGTGCCACG-----GCAAGGCCATCCGACCCACCGGCTCT 487

QY      569 CAGTCACGAGCAGGGGGAGGTGGCAGGGCGCTTGGTGGCAGAGATCACTCTGACAGCG 628
           || |||| ||||| ||||| ||||| |||
Db      488 CCGCGGCAACACCGAGCTGGAGGGCGCTGTGTTTCGAGATCGTCATCACTTCGCGCTCG 547

QY      629 TGGTGGCCCTGGGTGTATGCATGGGTGCCATCAATGAGAAAGCAAAAGGCCCTCTGGGCC 688
           || |||| ||||| ||||| ||||| |||
Db      548 TCTACACCGGTAGCCACCACCGCCGACCCCAAGAGGGCTCCCTCGGACCACTCGCG 607

QY      689 CGTTTCATCGGCTTTGGCCGTACACCGTGGATATCCTGCTGGGGGCGCCTGTGCTGGAG 748
           || ||||| ||||| ||||| ||||| |||
Db      608 CCATCGCATCGGCTTCATGTCGCGCCCAACATCTCGCGGGGGGCCCTTCAGCGGGG 667

QY      749 GCTGCATGAATCCCGCCGCTGTTTGGAGCTTGCCTGGTGGGCAACCACTGAGAACTTC 808
           || ||||| ||||| ||||| ||||| |||
Db      568 GCTCATGAGCCCGCCCGCTCTCTCGGCCCGCCGCTCGCCGGCGACTTTCGCGGCA 727

QY      809 ACTGGATCTACTGGCTGGGCGCACTCTCTGGCTGGGCTGCTTGTGTGACATGCTC 861
           ||||| ||||| ||||| ||||| ||||| |||
Db      728 ACTGGGTCTACTGGGTGCGCCCGCTCATCGGGGGGCGGACTCGGTGGCCCTGCTC 780

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RESULT 11
US-09-372-422A-21
US-09-372-422A-21
Sequence 21, Application US/09372422A
Patent No. 6313375
GENERAL INFORMATION:
APPLICANT: Rudolf Jung
APPLICANT: Francois Barrieu
TITLE OF INVENTION: Maize Aquaporins and Uses Thereof
FILE REFERENCE: 0919
CURRENT APPLICATION NUMBER: US/09/372.422A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: US 60/098,692
PRIOR FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 49
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 21
LENGTH: 1158

```

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; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (250)...(977)
US-09-372-422A-21

Query Match          7.9%; Score 107.6; DB 4; Length 1158;
Best Local Similarity 50.0%; Pred. No. 4.2e-19;
Matches 309; Conservative 0; Mismatches 294; Indels 15; Gaps 1;

QY 244 CTGGTCGAACACTCTGGGCTCTGCTCTCACTCTCATCGGTGCTGCGGTCAATGAG 303
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 337 CTCTTGCTTTCCGGGGCTGGTTCGGCCATCGGCTACGGGCAACTGACGAATGGCGGC 396
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 304 AATGGACGGACACTGGGCTCTGTCGACCGCGCCCTGGCCACGGGTGGGCTTTGGGGTTC 363
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 397 GCGCTGGACCCGGCGGGCTGGTGGGCGATCGCGATCGCGACGGCTGGCGCTGTTCTGG 456
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 364 GTGATTTGCCACGCTGGGGAATACAGTGGTGGACACTTCAACCCCTGGGCTGCCCTGGCA 423
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 457 GGGGTGTCGTGCGCGGCGAAATCTGGGGCGGCCACTGAACCGCGCGGTGACGTTTCGG 516
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 424 GCCATGCTGATCGGAGGCGCTCAACCTGGTGAATGCTCTCCGCTACTGGGTCTCACAGTG 483
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 517 CTGGCGCTGGGCGGCCACATCAACATCTGACGGGCGCTTCTTACTGGTGGCCAGCTG 576
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 484 CTGGGGGGATGCTCGGGGCTGCCCTTGGCCAGGCGGTGAGTCTCTGAGAGAGGTTCTGG 543
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 577 CTGGGGCGCACCGTGGCGTGCCCTGCTCTCGGCTTCGTACCCACGGCAAGGCCATCCCG 636
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 544 AATGTCATCTGGGCGCGCCCTTTGTGACAGTCCAGGACAGGGGCGAGGTGGCAGGGCGTTG 603
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 637 ACGCAGCGCGTCGCGGGCATC-----ACGGASCTGGAAGGCGTCTGTTTC 681
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 604 GTGCGAGAGATCATCTGACGACGCTGCTGGCCCTGGCTGTATGCTATGGGTGCGCATCAAT 663
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 682 GAGTGTGTATCACTTCTGCGCTCGTCTACACGCTGTACGCGCACCGCCGCGACCCCAAG 741
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 664 GAGAAAGCAAAAGGGCCCTCTGGCCCCCTTTCATCGGCTTTGCGCTCACCGTGAATATC 723
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 742 AAGGGCTCGCTCGGCACCATCGCCCATCGCCATCGCATCGGCTTCATGCTGCGCGCACATC 801
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 724 CTGGCTGGGGCCCTGTGTCTGTGAGGCTGTGAATGATCCGCGCCGCTGTTTGGAGCTGGC 783
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 802 CTCGCCGCGGGCGCCCTTCAGCGGGGCTCCATGAACCCCGCCGCTCCTTTGCGGCCCGCC 861
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 784 GTGTGGCCAAACACTTGAATTTCCATCTGATCTACTGGCTGGGCCACATCTCTGGCTGGC 843
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 862 GTCCGCGGGGCACTTCGCGGAACTGGGCTACTGGGTCTACTGGGTGCGCGCTCTGTCGGCG 921
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 844 CTGCTGTGTGGACTGCTC 861
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 922 GGCCTGCTGGCTCGTTC 939
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 12
US-09-372-448A-5
; Sequence 5, Application US/09372448A
; Patent No. 6313376
; GENERAL INFORMATION:
; APPLICANT: Rudolf Jung
; APPLICANT: Francois Chaumont
; APPLICANT: Maarten Chrispeels
; TITLE OF INVENTION: Maize Aquaporins and Uses Thereof
; FILE REFERENCE: 1172
; CURRENT APPLICATION NUMBER: US/09372,448A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: US 60/096,627
; PRIOR FILING DATE: 1998-08-14
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5

```

```
; LENGTH: 1153
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (116)...(863)
US-09-372-448A-5

Query Match
  7.8%; Score 105.4; DB 4; Length 1153;
Best Local Similarity 51.4%; Pred. No. 1.6e-18;
Matches 303; Conservative 0; Mismatches 271; Indels 15; Gaps 2;

QY 273 CATCTTCATCGGGTCCCTGTCGGTCAATGAGATGGAGCGACACTGGGTGCTGAGCC 332
Db 238 CATGGCTTCACAAAGCTGACCGGGCGGCCGACGACCCGGCGGCTGATCGCGC 297
QY 333 GGCCCTGGCCACCGGGCTGGCTTGGGGTTCGTGATGCCACGCTGGGGATATCAGTGG 392
Db 298 GCGGGTGGCGCACGGCTTCGGCTGTTCGTGGCGGTGTCGGTGGCGCGCAACATCTCCGG 357
QY 393 TGGACACTTCACACCTCGGCGTCCCTGGCGACGATGCTGATCGAGGCTTCACCTGGT 452
Db 358 CGGGCAGTGAACCGCGCGCTGACCTTCGGCGCTTCGTGGCGGCAACATCACCTGTT 417
QY 453 GATGCTCTCCCGTACTGGGTCTACAGCTGCTCGGGGGATGCTCGGGGCTGCTTGGC 512
Db 418 CCGAGGGCTCTGTACTGGGTGGCGCAGC-----TGTGGGGTCCACCGTGGC 465
QY 513 CAAGCGGTGACTCTGAGGAGAGTCTTGAATGATCTGGGCGGCCCTTTGTACAGT 572
Db 466 GTGCTTCTGCTCCGCTCTCTGACGGCGGGCAGGCGACGGGACCTTCGGGTGACGGG 525
QY 573 CCAGGAGCAGGGCGAGTGGCGGGCTTGGTGGCAGAGATCATCTGACGACGCTGCT 632
Db 526 C---GTGCTGGTGGGAGCGCTGGTGGAGATCTGTGATGACCTTCGGGTGGTGTGA 582
QY 633 GGCCCTGGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 692
Db 583 CAGGGTGTGACGAGCGCGGGTGGACCGGAGAGGCGACCTGGGCGACCATCGCCCGCAT 642
QY 693 CTCATCGGCTTGGCGTCACTGAGTGGATGCTGGGTGGGGCGCTGTGCTGGAGGCTG 752
Db 643 TGCATCGGCTTCACTGTTGGGGCCACATCTGTTGGGGCGGCTTCGACGGCGCTC 702
QY 753 CATGATATCGCGCGCTGTTTGGACCTGGGTGGGTGGGCGCAACACATTCGAACTTCCACTG 812
Db 703 CATGAACCGCGCGCTGCTTCGGCGCGCGCTTCGCTGAGCTGGAGTGGGGCTTACCACTG 762
QY 813 GATCTACTGGCTGGCGCCCATCTCTGCTGGTGGCTGCTTGTGGACTGCTC 861
Db 763 GGTGCTACTGGTGGCGCCCTTCATCGCGCGGCGCTTCGCGCGCTCATC 811

RESULT 13
US-09-372-422A-31
; Sequence 31, Application US/09372422A
; Patent No. 6313375
; GENERAL INFORMATION:
; APPLICANT: Rudolf Jung
; APPLICANT: Francois Barrieu
; TITLE OF INVENTION: Maize Aquaporins and Uses Thereof
; FILE REFERENCE: 0919
; CURRENT APPLICATION NUMBER: US/09/372,422A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: US 60/098,692
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 1015
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:

; NAME/KEY: CDS
; LOCATION: (77)...(863)
US-09-372-422A-31

Query Match
  7.4%; Score 100; DB 4; Length 1015;
Best Local Similarity 51.0%; Pred. No. 4.1e-17;
Matches 294; Conservative 0; Mismatches 270; Indels 12; Gaps 2;

QY 301 GAGATGGAGGACACTGGGTGCTGAGCGCGCCCTGGCCCGACGGGCTGGCTTTGGGG 360
Db 239 GACATGAGCAGCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 298
QY 361 CTCGTGATGTCAGCGCTGGGGATATCAGTGGTGGACACTTCACCCCTGCGGTGCTCCTG 420
Db 299 GTGGCGGTGGCGAGTGGCGGTCAACATCTCGGGCGGGGCACTGAAACCGCGGTGACCTTC 358
QY 421 GCAGCCATGCTGATCGAGGCGCTCAACCTGGTGGTGGTCTCTCCCTACTTGGGTCTCAGAG 480
Db 359 GCGCGCTGCTGCGCGCGCGCTCTCCCTGCTGCGCGCGCTCTTGTACTGGGTGCGCGCAG 418
QY 481 CTGCTCGGGGGGATGCTCGGGGCTGCTTGGCGCAAGCGGTGAGTCTCTGAGGAGGTTTC 540
Db 419 CTGCTGGG-----CGCGCTGCGCGCGCGCTCTCTCTGCGGTGCGCACCGGGGGC 469
QY 541 TGAATGATCTGGGGCGCGCTTGTGACAGTCCAGAGCAGGGGCGAGGTGGCGGGCG 600
Db 470 ATGCGCGCGCGGGGTTTCGCGCTCGCTTCGCGTCCGGGTTCGGGACTGGCA--CGCGCTGCTG 526
QY 601 TTGGTGGCAGAGATCACTGAGAGCTGCTGGCGCTGCTGGCGCTGCTGGCTGCTGGCTGCTG 660
Db 527 CTGGAGCGCTGATGAGTCTGCGCTCATGTACGCTTACTACGCCACGCTGATCGACCG 586
QY 661 AATGAGAGACAAAGCGCGCTTGGCGCGCTTCCATCGGCTTTCGCTGCTGCTGCTGCTGCTG 720
Db 587 AAGCGGGGCGACCTGGCGACCATCGCGCGCTGCGCGCTGCTGCTGCTGCTGCTGCTGCTG 646
QY 721 ATCTGCTGGGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 780
Db 647 GTGCTGGCGGGGCGCGCTTTCGACGCGCGAGGATGAACCGCGCGGTCTCTGCGGCGCG 706
QY 781 GGGTGGTGGCAACCACTGAGACTTCCACTGAGTCTACTGCTGGCGCGCTGCTGCTGCTGCTG 840
Db 707 GCGCTGCTGGTGGGCTGGGAGGACCACTGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 766
QY 841 GCGCTGCTTGTGGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 876
Db 767 GCGGGCTTGCAGGCGCTGGTACGAGTACCTGGTT 802

RESULT 14
US-09-372-422A-33
; Sequence 33, Application US/09372422A
; Patent No. 6313375
; GENERAL INFORMATION:
; APPLICANT: Rudolf Jung
; APPLICANT: Francois Barrieu
; TITLE OF INVENTION: Maize Aquaporins and Uses Thereof
; FILE REFERENCE: 0919
; CURRENT APPLICATION NUMBER: US/09/372,422A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: US 60/098,692
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 1081
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:

; NAME/KEY: CDS
; LOCATION: (37)...(799)
US-09-372-422A-33
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Query Match          7.4%; Score 99.6; DB 4; Length 1081;
Best Local Similarity 49.8%; Pred. No. 5.4e-17;
Matches 289; Conservative 0; Mismatches 279; Indels 12; Gaps 1;

QY 259 GGCCTGCTCTTCATCTTCATCGGGTGCCTGCTGCATTCAGAAATGGACGACACT 318
      ||||| || || || || || || || || || || || || || || || || ||
Db 145 GGCCTCAGGATCGGGATGCTTCAGTAAGCTCAGGAGGTGGCGCGCCACTCCCTGCC 204

QY 319 GGGCTGCTGCAGCGCGCCCTGCCCAAGGCTGGCTGGGCTGGTATGCCACGCTG 378
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QY 379 GGAATATACAGTGTGACACTCAACCTCGCTGCTGCCGACACCTGCTATCGGA 438
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QY 439 GGCCTCAACCTGGTGTGCTCCCTCGCTGCTGCTGCTGCTGCTGCTGCTGCT 498
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## RESULT 15

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US-08-447-554-3
; Sequence 3, Application US/08447554
; Patent No. 5661003
; GENERAL INFORMATION:
; APPLICANT: FUSHIMI, KIYOHIDE
; APPLICANT: UCHIDA, SHINICHI
; APPLICANT: SASAKI, SEI
; APPLICANT: MARUMO, FUMIAKI
; TITLE OF INVENTION: WATER CHANNEL
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster
; STREET: 2000 Pennsylvania Ave. NW, Ste. 5500
; CITY: Washington, DC
; COUNTRY: USA
; ZIP: 20006-1812
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/447,554
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/126,365

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; FILING DATE: 24-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Murashige, Kate H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 5100-0003.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 887-0763
; TELEX: 90-4030
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1408 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 85..897
; US-08-447-554-3

Query Match          7.2%; Score 97.8; DB 1; Length 1408;
Best Local Similarity 50.3%; Pred. No. 1.8e-16;
Matches 271; Conservative 0; Mismatches 262; Indels 6; Gaps 1;

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Job time : 66.234 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model  
Run on: October 15, 2003, 11:15:03 ; Search time 267.374 Seconds  
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Perfect score: 1354  
Sequence: 1 ggtgagccctctggcat.....atagtcagttgtctctcc 1354

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1731049 seqs, 1297405648 residues  
Total number of hits satisfying chosen parameters: 3462098

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications\_NA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1354	100.0	1354	12	US-10-396-943-2
3	1213.6	89.6	1312	10	US-09-981-353-62
4	1213.6	89.6	1312	12	US-10-396-943-5
5	1213.4	89.6	1410	9	US-09-925-299-67
6	1213.4	89.6	1410	11	US-09-925-299-67
7	1213.4	89.6	1410	14	US-10-023-896-40
8	1213.4	89.6	1410	14	US-10-106-698-245
9	1210.2	89.4	1314	14	US-10-216-408-16
10	1203.4	88.9	1324	14	US-10-158-646-49
11	1202	88.8	1388	14	US-10-023-896-11
12	1202	88.8	1712	14	US-10-106-698-1986
13	473.8	35.0	562	12	US-10-396-943-6
14	315.2	23.3	321	11	US-09-803-719-2329
15	312.8	23.1	317	11	US-09-803-719-2269
16	310.6	22.9	318	11	US-09-803-719-2361

17	305.2	22.5	321	11	US-09-803-719-2362	Sequence 2362, Ap
18	280.8	20.7	314	11	US-09-803-719-2328	Sequence 2328, Ap
19	277.4	20.5	281	14	US-10-216-408-9	Sequence 9, Appli
20	271	20.0	282	14	US-10-216-408-12	Sequence 12, Appl
21	266	19.6	269	14	US-10-216-408-7	Sequence 7, Appli
22	261	19.3	274	12	US-10-396-943-4	Sequence 4, Appli
23	257	19.0	257	14	US-10-216-408-4	Sequence 4, Appli
24	255.4	18.9	257	14	US-10-216-408-11	Sequence 11, Appl
25	251.4	18.6	620	12	US-10-396-943-7	Sequence 7, Appli
26	244	18.0	244	14	US-10-216-408-3	Sequence 3, Appli
27	244	18.0	244	14	US-10-216-408-6	Sequence 6, Appli
28	243.8	18.0	279	14	US-10-216-408-14	Sequence 14, Appl
29	233	17.2	233	12	US-10-396-943-3	Sequence 3, Appli
30	230.8	17.0	256	14	US-10-216-408-10	Sequence 10, Appl
31	228.4	16.9	231	14	US-10-216-408-13	Sequence 13, Appl
32	224	16.5	224	14	US-10-216-408-5	Sequence 5, Appli
33	215.4	15.9	220	14	US-10-216-408-15	Sequence 15, Appl
34	199.4	14.7	201	14	US-10-216-408-8	Sequence 8, Appli
35	183.2	13.5	279	12	US-10-396-943-8	Sequence 8, Appli
36	134.4	9.9	325	12	US-10-396-943-10	Sequence 10, Appl
37	123	9.1	222	14	US-10-216-408-2	Sequence 2, Appli
38	117.8	8.7	759	10	US-09-887-576-810	Sequence 810, App
39	114.2	8.4	159	12	US-10-396-943-9	Sequence 9, Appli
40	106.2	7.8	747	10	US-09-887-576-781	Sequence 781, App
41	99.4	7.3	1827	10	US-09-887-576-817	Sequence 817, App
42	95.4	7.0	753	10	US-09-887-576-822	Sequence 822, App
43	91	6.7	1316	14	US-10-097-340-11	Sequence 11, Appl
44	91	6.7	1316	14	US-10-171-311-15	Sequence 15, Appl
45	83.4	6.2	935	9	US-09-770-445-373	Sequence 373, App

ALIGNMENTS

RESULT 1  
US-09-864-711-8  
; Sequence 8, Application US/09864711  
; Patent No. US20020077309A1  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael G.  
; APPLICANT: Volkmar, Wayne  
; APPLICANT: Klingler, Tod M.  
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS  
; FILE REFERENCE: PB-0008-1 CIP  
; CURRENT APPLICATION NUMBER: US/09/864,711  
; CURRENT FILING DATE: 2001-05-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PERL Program  
; SEQ ID NO 8  
; LENGTH: 1354  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: 2774542CB1  
US-09-864-711-8

Query Match	100.0%;	Score 1354;	DB 9;	Length 1354;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1354;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	GGTGAAGCCCTCTGTGCGGACATCTCTCCAGGCTGCGAGCAAGGGGGCTGTGAATT	60	
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QY 301 GAGATGGGAGACACTGGGTGCTGCTGACGCGGCGCTGGCCACGCGTGGCTTTGGGG 360
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QY 421 GCAGCCATGCTGATCGGAGCGCTCAACCTGGTATGCTCTCCCTGCTGCTGCTGCTGCTG 480
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QY 481 CTGCTCGGGGGATGCTCGGGGCTGCTTGGCCAAAGCGGTGAGTCTGAGGAGAGGTTTC 540
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QY 781 GCGGTGGTGGCCAAACCTGGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
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QY 841 GCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
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; Sequence 2, Application US/10396943
; Publication No. US20030158085A1
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmlth, Wayne
; APPLICANT: Klidger, Tod M.
; TITLE OF INVENTION: AQUAFORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/10/396,943
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/610,906
; PRIOR FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 2
; LENGTH: 1354
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20030158085A1 2774542CB1
; PUBLICATION INFORMATION:
US-10-396-943-2
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1354; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 181 AGGAGCCGAGCGTGGGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
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; Sequence 62, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Iasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 62

; LENGTH: 1312  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Inceyte ID No. US20020160382A1 1804734CB1  
US-09-981-353-62  
  
Query Match 89.6%; Score 1213.6; DB 10; Length 1312;  
Best Local Similarity 99.3%; Pred. No. 0;  
Matches 1219; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
  
QY 122 TCCCTTTTCCCTACGCGAGATAGCCATGTGTGAGCTGATTTGGCAATGACAAAGGCCA 181  
Db 85 TCCTGATGCTGGAGAGCAGATAGCCATGTGTGAGCTGATTTGGCAATGACAAAGGCCA 144  
QY 182 GGGAGCCGAGCTGGGTGGCAGGTGGCAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 241  
Db 145 GGGAGCCGAGCTGGGTGGCAGGTGGCAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTG 204  
QY 242 GTCTGGTCAACGCTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 301  
Db 205 GTCTGGTCAACGCTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 264  
QY 302 AGAATGGAGCGGACACTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 361  
Db 265 AGAATGGAGCGGACACTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 324  
QY 362 TCGTGAATGCCAGCTGGGATATCAAGTGTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTG 421  
Db 325 TCGTGAATGCCAGCTGGGATATCAAGTGTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTG 384  
QY 422 CAGCCATGCTGATCGGAGGCTTCAACTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 481  
Db 385 CAGCCATGCTGATCGGAGGCTTCAACTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 444  
QY 482 TCGTGGGGGATGCTGCGGGCTGCTGCGCAGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 541  
Db 445 TCGTGGGGGATGCTGCGGGGCTGCTGCGCAGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 504  
QY 542 GGAATGATCTGGGGGCGCTTTGTGACAGTCCAGAGAGGCGGAGGTGGCAGGGGCGCT 601  
Db 505 GGAATGATCTGGGGGCGCTTTGTGACAGTCCAGAGAGGCGGAGGTGGCAGGGGCGCT 564  
QY 602 TGGTGGCAGAGATCATCTGAGAGCGCTGCTGCGCCCTGCTGCTGCTGCTGCTGCTGCTGCT 661  
Db 565 TGGTGGCAGAGATCATCTGAGAGCGCTGCTGCGCCCTGCTGCTGCTGCTGCTGCTGCTGCT 624  
QY 662 ATGAGAAGACAAAGGGCGCTTCTGCGCCCGCTTCTCCATGCGCTTTCCTGCTGCTGCTG 721  
Db 625 ATGAGAAGACAAAGGGCGCTTCTGCGCCCGCTTCTCCATGCGCTTTCCTGCTGCTGCTG 684  
QY 722 TCGTGGCTGGGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 781  
Db 685 TCGTGGCTGGGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 744  
QY 782 CGGTGGTGGCCCACTGGAATCTCCACTGGAATCTCCACTGGAATCTCCACTGGAATCTCC 841  
Db 745 CGGTGGTGGCCCACTGGAATCTCCACTGGAATCTCCACTGGAATCTCCACTGGAATCTCC 804  
QY 842 GCCTGCTTTGTTGGACTGCTCATTAGTGTCTTCAATGGAGATGGGAGAGCCGCGCTCATCC 901  
Db 805 GCCTGCTTTGTTGGACTGCTCATTAGTGTCTTCAATGGAGATGGGAGAGCCGCGCTCATCC 864  
QY 902 TGAAGGCTCGGTGAAGCAGAGCTCGTGGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 961  
Db 865 TGAAGGCTCGGTGAAGCAGAGCTCGTGGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 924  
QY 962 CTGTCCCAAGTGGAGAGAGGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1021  
Db 925 CTGTCCCAAGTGGAGAGAGGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 984  
QY 1022 AGCGAGCCCTGCTTCCACTGCTTGGGCTGCTTCTCAGATAGACTGCTGCTGAGGAG 1081

Db	985	AGCCACCCCCCTGCTTCCACTCTCTTGGGSCCTGCTTTCTCAGATAGACTGACTGCTGAGGAG	1044
QY	1082	GCTCTAGGTTCTTGGAATTCCTTTTGTCATCATCAGACACCCAGCCTGGGGAACACGCTG	1141
Db	1045	GCTCTAGGTTCTTGGAAATCTCTTTGTCATCATCAGACACCCAGCCTGGGGAACACGCTG	1104
QY	1142	CCGCACTGCCCAGACAGACAGTGGAAACACACACACAGAGAGCGTGTTCCTTGAGAGGAAT	1201
Db	1105	CCGCACTGCCCAGACAGACAGTGGAAACACACACACAGAGAGCGTGTTCCTTGAGAGGAAT	1164
QY	1202	GTCCCGAGTTGGACAAAGAGGCTGTTTGTGCACATCAGTCATTTCCGCGACACCCCAATTT	1261
Db	1165	GTCCCGAGTTGGACAAAGAGGCTGTTTGTGCACATCAGTCATTTCCGCGACACCCCAATTT	1224
QY	1262	CTTGCTTGATGCTTTGTTGGGGCCCTGGCCACTTCTTCGCTTCTCAAGCTGACAATTC	1321
Db	1225	CTTGCTTGATGCTTTGTTGGGGCCCTGGCCACTTCTTCGCTTCTCAAGCTGACAATTC	1284
QY	1322	CACTTTGCATAATAAGTCCAGTGTTTC	1349
Db	1285	CACTTTGCATAATAAGTCCAGTGTTTC	1312
RESULT 4			
US-10-396-943-5			
: Sequence 5, Application US/10396943			
: Publication No. US20030158085A1			
: GENERAL INFORMATION:			
: APPLICANT: Walker, Michael G.			
: APPLICANT: Volkmut, Wayne			
: APPLICANT: Klingner, Tod M.			
: TITLE OF INVENTION: AQUAPORIN-8 VARIANT			
: FILE REFERENCE: PC-0012 CIP			
: CURRENT APPLICATION NUMBER: US/10/396,943			
: CURRENT FILING DATE: 2003-03-24			
: PRIOR APPLICATION NUMBER: US/09/610,906			
: PRIOR FILING DATE: 2000-07-06			
: PRIOR APPLICATION NUMBER: 09/226,994			
: PRIOR FILING DATE: 1999-01-07			
: NUMBER OF SEQ ID NOS: 12			
: SOFTWARE: PERL Program			
: SEQ ID NO 5			
: LENGTH: 1312			
: TYPE: DNA			
: ORGANISM: Homo sapiens			
: FEATURE:			
: NAME/KEY: misc feature			
: OTHER INFORMATION: Incyte ID No. US20030158085A1 1804734CB1			
: PUBLICATION INFORMATION:			
US-10-396-943-5			
Query Match 89.6%; Score 1213.6; DB 12; Length 1312;			
Best Local Similarity 99.3%; Pred. No. 0;			
Matches 1219; Conservative 0; Mismatches 9; Indels 0; Gaps 0;			
QY	122	TCCTTTTTCCTACGGCAGATACCCATGTGTGAGCCTGAATTTGGCAATGACACAGGCCA	181
Db	85	TCCTTGATGTTGGAGACAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACACAGGCCA	144
QY	182	GGGAGCCGACGTTGGTGGCAGGTGGCGAGTGTCTGTGTACGAACGGTGTGTGCAGCCAT	241
Db	145	GGGAGCCGACGTTGGTGGCAGGTGGCGAGTGTCTGTGTACGAACGGTGTGTGCAGCCAT	204
QY	242	GTCTGTGCAACTGCTGGGCTCTGCTCTCTCATCTTCATCTTCATCGGCTGCTGGTCAATG	301
Db	205	GTCTGTGCAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGCTGCTGGTCAATG	264
QY	302	AGAAATGGACGGACACTGGGCTGCTGCAGCCGCCCTGGCCACAGGGCTGGCTTTGGGGC	361
Db	265	AGAAATGGACGGACACTGGGCTGCTGCAGCCGCCCTGGCCACAGGGCTGGCTTTGGGGC	324
QY	362	TGCTGATTTGCCAGCTGGGGGAATATCAGTGGTGGACACTTCAACCCCTGGGGTGTCCCTGG	421

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; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA102
; CURRENT APPLICATION NUMBER: US/09/925,299
; PRIOR FILING DATE: 2001-08-10
; PRIOR FILING DATE: 2000-03-08
; PRIOR FILING DATE: 2000-03-08
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1556
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 67
; LENGTH: 1410
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-925-299-67

Query Match      89.6%; Score 1213.4; DB 9; Length 1410;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1214; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 140 AGATAGCCATGCTGTGAGCCCTGATTTGGCAATGACAAAGCCAGGAGCCGAGCGTGGTG 199
Db 111 AGATAGCCATGCTGTGAGCCCTGATTTGGCAATGACAAAGCCAGGAGCCGAGCGTGGTG 170
QY 200 GCAGGTGGGAGTGTCTCTGTGACGAGGTTTGTGACGCCATGTCTGTGCACTGCTGG 259
Db 171 GCAGGTGGGAGTGTCTCTGTGACGAGGTTTGTGACGCCATGTCTGTGCACTGCTGG 230
QY 260 GCTCTGCTCTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 319
Db 231 GCTCTGCTCTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 290
QY 320 GGCTGCTCTCTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 379
Db 320 GGCTGCTCTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 319
QY 291 GGCTGCTCTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 350
Db 291 GGCTGCTCTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 340
QY 380 GGAATATAGTGGTGGACACTTCAACCCCTGCGGTTGTCCTGGACGCCATGTCTGATCGGAG 439
Db 351 GGAATATAGTGGTGGACACTTCAACCCCTGCGGTTGTCCTGGACGCCATGTCTGATCGGAG 410
QY 440 GCCTCAACTGTGTGATGCTCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 499
Db 411 GCCTCAACTGTGTGATGCTCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 470
QY 500 GGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 559
Db 471 GGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 530
QY 560 CCTTTGTGACACTGACAGCAGGCGAGTGGCGAGTGGCGAGTGGCGAGTGGCGAGTGGCGAG 619
Db 531 CCTTTGTGACACTGACAGCAGGCGAGTGGCGAGTGGCGAGTGGCGAGTGGCGAGTGGCGAG 590
QY 620 TGACAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 679
Db 591 TGACAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 650
QY 680 CTCTGGCCCGCTTCTCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 739
Db 651 CTCTGGCCCGCTTCTCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 710
QY 740 TGCTGTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 799
Db 711 TGCTGTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 770
QY 800 GGAATTTCCACTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 859
Db 771 GGAATTTCCACTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 830
QY 860 TCATTAGTGTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 919
Db 831 TCATTAGTGTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 890
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## RESULT 6

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US-09-925-299-67
; Sequence 67, Application US/0925299
; Publication No. US20030040617A9
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA102
; CURRENT APPLICATION NUMBER: US/09/925,299
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05883
; PRIOR FILING DATE: 2000-03-08
; PRIOR FILING DATE: 2000-03-08
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1556
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 67
; LENGTH: 1410
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-925-299-67

Query Match      89.6%; Score 1213.4; DB 11; Length 1410;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1214; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 140 AGATAGCCATGCTGTGAGCCCTGATTTGGCAATGACAAAGCCAGGAGCCGAGCGTGGTG 199
Db 111 AGATAGCCATGCTGTGAGCCCTGATTTGGCAATGACAAAGCCAGGAGCCGAGCGTGGTG 170
QY 200 GCAGGTGGGAGTGTCTCTGTGACGAGGTTTGTGACGCCATGTCTGTGCACTGCTGG 259
Db 171 GCAGGTGGGAGTGTCTCTGTGACGAGGTTTGTGACGCCATGTCTGTGCACTGCTGG 230
QY 260 GCTCTGCTCTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 319
Db 231 GCTCTGCTCTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 290
QY 320 GGCTGCTCTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 379
Db 320 GGCTGCTCTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 319
QY 291 GGCTGCTCTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 350
Db 291 GGCTGCTCTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 340
QY 380 GGAATATAGTGGTGGACACTTCAACCCCTGCGGTTGTCCTGGACGCCATGTCTGATCGGAG 439
Db 351 GGAATATAGTGGTGGACACTTCAACCCCTGCGGTTGTCCTGGACGCCATGTCTGATCGGAG 410
QY 440 GCCTCAACTGTGTGATGCTCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 499
Db 411 GCCTCAACTGTGTGATGCTCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 470
QY 500 GGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 559
Db 471 GGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 530
QY 560 CCTTTGTGACACTGACAGCAGGCGAGTGGCGAGTGGCGAGTGGCGAGTGGCGAGTGGCGAG 619
Db 531 CCTTTGTGACACTGACAGCAGGCGAGTGGCGAGTGGCGAGTGGCGAGTGGCGAGTGGCGAG 590
QY 620 TGACAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 679
Db 591 TGACAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 650
QY 680 CTCTGGCCCGCTTCTCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 739
Db 651 CTCTGGCCCGCTTCTCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 710
QY 740 TGCTGTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 799
Db 711 TGCTGTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 770
QY 800 GGAATTTCCACTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 859
Db 771 GGAATTTCCACTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 830
QY 860 TCATTAGTGTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 919
Db 831 TCATTAGTGTCTTCACTCATCTCATCGGTCCTGTCGTCATTTGAGATGAGCGACACTG 890
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Db      291  GGTCTGTCAGCGCGCCCTGGCCACAGGGCTGCTTTGGGCTGCTGATTCGCCACGCTGG 350
QY      380  GGAATATACGTGTGGACACTTCAACCCCTCGGTGTCTCCCTGGCAGCCATCTGATCEGAG 439
Db      351  GGAATATACGTGTGGACACTTCAACCCCTCGGTGTCTCCCTGGCAGCCATCTGATCGGAG 410
QY      440  GCCTCAACCTGTGTGCTCTCCCTGCTACTGGCTCTCACAGCTGTGGGGGATGCTCG 499
Db      411  GCCTCAACCTGTGTGCTCTCCCTGCTACTGGCTCTCACAGCTGTGGGGGATGCTCG 470
QY      500  GGGCTGCTTGGCCAAAGCGGTGAGTCTCTGAGGAGAGTCTTGAATGATCATCTGGGGCGG 559
Db      471  GGGCTGCTTGGCCAAAGCGGTGAGTCTCTGAGGAGAGTCTTGAATGATCATCTGGGGCGG 530
QY      560  CCTTTGTGACAGTCCAGGAGCAGGCGAGCTGGCAGGCGGTGGTGGCAGAGATCATCC 619
Db      531  CCTTTGTGACAGTCCAGGAGCAGGCGAGCTGGCAGGCGGTGGTGGCAGAGATCATCC 590
QY      620  TGACGAGCTGCTGGCCCTGGCTGTATGATGGTGGCCATCAATGAGAAGACAAAGGCC 679
Db      591  TGACGAGCTGCTGGCCCTGGCTGTATGATGGTGGCCATCAATGAGAAGACAAAGGCC 650
QY      680  CTCCTGGCCCGTCTCCATCGCTTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 739
Db      651  CTCCTGGCCCGTCTCCATCGCTTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 710
QY      740  TGTCTGGAGGCTGCATGAATCCCGCGCTGCTTTTGGACCTGCGGTGGTGGCCAAACCACT 799
Db      711  TGTCTGGAGGCTGCATGAATCCCGCGCTGCTTTTGGACCTGCGGTGGTGGCCAAACCACT 770
QY      800  GGAATTCACATGATCTACTGGCTGGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 859
Db      771  GGAATTCACATGATCTACTGGCTGGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 830
QY      860  TCAATAGTGTCTTCAATGAGATGGGAAGACCGCGCTCATCTGAGGCTGCTGCTGAGCA 919
Db      831  TCAATAGTGTCTTCAATGAGATGGGAAGACCGCGCTCATCTGAGGCTGCTGCTGAGCA 890
QY      920  GAGCTGTGGGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 979
Db      891  GAGCTGTGGGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 950
QY      980  AGGGAGTCTCTGATTTCTCCAGGCGCAGAGGCGCCAGAGGAGACCCCTGCTTCCA 1039
Db      951  AGGGAGTCTCTGATTTCTCCAGGCGCAGAGGCGCCAGAGGAGACCCCTGCTTCCA 1010
QY      1040  CTGCTTGGGCTGCTTCTCAGATAGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1099
Db      1011  CTGCTTGGGCTGCTTCTCAGATAGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1070
QY      1100  TCTTTTGTGCTCATCAGAGACCCAGCTGGGGAACACGCTGCCGCTGCTGCCAGAGAG 1159
Db      1071  TCTTTTGTGCTCATCAGAGACCCAGCTGGGGAACACGCTGCCGCTGCTGCCAGAGAG 1130
QY      1160  CAGTCAACACACACACAGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1219
Db      1131  CAGTCAACACACACACAGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1190
QY      1220  GAGGCTGCTTCTGACATCAGCTCATTTCCCGCACCCCATTTCTGCTGATGCTGCTTGT 1279
Db      1191  GAGGCTGCTTCTGACATCAGCTCATTTCCCGCACCCCATTTCTGCTGATGCTGCTTGT 1250
QY      1280  TGGGGGCTTGGCCACTTCTTCTCAAGCTGACAAATTCATCTTTCGATTAATAATAGT 1339
Db      1251  TGGGGGCTTGGCCACTTCTTCTCAAGCTGACAAATTCATCTTTCGATTAATAATAGT 1310
QY      1340  CCAGTGTCTTCTTCC 1354
Db      1311  CCAGTGTCTTCTTCC 1325

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RESULT 7  
US-10-023-896-40

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; Sequence 40, Application US/10023896
; Publication No. US2003002776A1
; GENERAL INFORMATION:
; APPLICANT: Victor Roschke
; TITLE OF INVENTION: 29 Human Cancer Associated Proteins
; FILE REFERENCE: PA004P1
; CURRENT APPLICATION NUMBER: US/10/023,896
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: unassigned
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: PCT/US00/23794
; PRIOR FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/152,296
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/158,003
; PRIOR FILING DATE: 1999-10-06
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 40
; LENGTH: 1410
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-023-896-40

Query Match      89.6%; Score 1213.4; DB 14; Length 1410;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1214; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      140  AGATAGCCATGTCAGCCGCTCAATTTGGCAATGACAAGGCCAGGAGCGGAGCGTGGTG 199
Db      111  AGATAGCCATGTCAGCCGCTCAATTTGGCAATGACAAGGCCAGGAGCGGAGCGTGGTG 170
QY      200  GCAGGTGGCGAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 259
Db      171  GCAGGTGGCGAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 230
QY      260  GCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 319
Db      231  GCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 290
QY      320  GGTGCTGTCAGCGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 379
Db      291  GGTGCTGTCAGCGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 350
QY      380  GGAATATCAGTGTGGACACTTCAACCCCTCGGTGTCTCCCTGGCAGCCATCTGATCGAG 439
Db      351  GGAATATCAGTGTGGACACTTCAACCCCTCGGTGTCTCCCTGGCAGCCATCTGATCGAG 410
QY      440  GCCTCAACCTGTGTGCTCTCCCTGCTACTGGCTCTCACAGCTGCTCGGGGGATGCTCG 499
Db      411  GCCTCAACCTGTGTGCTCTCCCTGCTACTGGCTCTCACAGCTGCTCGGGGGATGCTCG 470
QY      500  GGGCTGCTTGGCCAAAGCGGTGAGTCTCTGAGGAGAGTCTTGAATGATCATCTGGGGCGG 559
Db      471  GGGCTGCTTGGCCAAAGCGGTGAGTCTCTGAGGAGAGTCTTGAATGATCATCTGGGGCGG 530
QY      560  CCTTTGTGACAGTCCAGGAGCAGGCGAGCTGGCAGGCGGTGGTGGCAGAGATCATCC 619
Db      531  CCTTTGTGACAGTCCAGGAGCAGGCGAGCTGGCAGGCGGTGGTGGCAGAGATCATCC 590
QY      620  TGACGAGCTGCTGGCCCTGGCTGTATGATGGTGGCCATCAATGAGAAGACAAAGGCC 679
Db      591  TGACGAGCTGCTGGCCCTGGCTGTATGATGGTGGCCATCAATGAGAAGACAAAGGCC 650
QY      680  CTCCTGGCCCGTCTCCATCGCTTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 739
Db      651  CTCCTGGCCCGTCTCCATCGCTTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 710
QY      740  TGTCTGGAGGCTGCATGAATCCCGCGCTGCTTTTGGACCTGCGGTGGTGGCCAAACCACT 799
Db      711  TGTCTGGAGGCTGCATGAATCCCGCGCTGCTTTTGGACCTGCGGTGGTGGCCAAACCACT 770
QY      800  GGAATTCACATGATCTACTGGCTGGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 859

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Db      1300 CCAAGTGTTCCTTCC 1314

RESULT 10
; Sequence 49, Application US/10158646
; Publication No. US20030073105A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy K.W.
; APPLICANT: Sornasse, Thierly
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0030-1 US
; CURRENT APPLICATION NUMBER: US/10/158,646
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: 60/295,239
; PRIOR FILING DATE: 2001-05-31
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PERL Program
; SEQ ID NO 49
; LENGTH: 1324
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20030073105A1 201901.4
US-10-158-646-49

Query Match      88.9%; Score 1203.4; DB 14; Length 1324;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1222; Conservative 0; Mismatches 11; Indels 2; Gaps 1;

QY      122 TCCTTTTCCCTACGCGAGATAGCCATGTGTGACCCGTGAATTTGGCAATGACAGGGCCA 181
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY      182 GGAGCGGAGCGTGGGTGGAGTGGCGAGTGTCTGTGTAGCAACGGTTTGTACAGCAT 241
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY      242 GTCTGTGGAAGTCTGGGGTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 301
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY      302 AGAATGGGACGACACTGGGCTGCTGCGACGGGCC--TGGCCACGGGGTGGCTTGGG 359
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY      360 GCTCGTATTGCCAGCTGGGGAATATCATGTGTGTGACACTTCAACCTCGCGTGTCCCT 419
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY      420 GGACGCAATGCTGATPCGAGAGCCCTCAACCTGTGTGTCTCTCCCGTACTGGGTCTACA 479
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY      480 GCTGCTCGGGGGATGCTCGGGGCTGCTTGGCCAGCGGTGTGTCTCTGAGAGAGGTT 539
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY      540 CTGGAATGATCTGGGGCGGCTTTGTGACAGTCCAGGAGCAGGGGAGGTGGCAGGGG 599
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY      550 CTGGAATGATCTGGGGCGGCTTTGTGACAGTCCAGGAGCAGGGGAGGTGGCAGGGG 599
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY      600 GTTGGTGGCAGAGATATCTGAGGAGCGCTGTGCGCCCTGTGCTGTATGATGGGTGCCAT 659
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY      660 CAATGAGAGACAAAGGCGCTCTGCGCCGCTTCTCCATCGCTTCCCTCACCCTGGA 719
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY      630 CAATGAGAGACAAAGGCGCTCTGCGCCGCTTCTCCATCGCTTCCCTCACCCTGGA 689
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY      720 TATCCCTGGGTGGGGGCGCTGTGTCTGGAGGCTGCATGAATCCCGCGGCTGCTTTGGACC 779
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

690 TATCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCGGCTGCTTTGGACC 749
QY      780 TGGGTGTGGCCAAACCACTGGAACTTCCACTGGATCTACTGGGTGGGCCCACTCTGGC 839
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
750 TGGGTGTGGCCAAACCACTGGAACTTCCACTGGATCTACTGGGTGGGCCCACTCTGGC 809
QY      840 TGGCTGTCTTGTGGACTGCTCATTAGTGTCTTATTGGAGATGGGAAGACCCGCTCAT 899
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
810 TGGCTGTCTTGTGGACTGCTCATTAGTGTCTTATTGGAGATGGGAAGACCCGCTCAT 869
QY      900 CTTGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTGCTCCAGGTGCTCAGCTC 959
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
870 CTTGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTGCTCCAGGTGCTCAGCTC 929
QY      960 ACTGTGCCAGACTGAGGACAGGGGAGTTCCTGCAATTCCTGCCAGGCGAGAGGCCCAGA 1019
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
930 ACTGTGCCAGACTGAGGACAGGGGAGTTCCTGCAATTCCTGCCAGGCGAGAGGCCCAGA 989
QY      1020 GGAGCGACCCCTGCTTCCACTGCTTGGGCTGCTTTCAGATAGACTGCTGCTGAGG 1079
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
990 GGAGCGACCCCTGCTTCCACTGCTTGGGCTGCTTTCAGATAGACTGCTGCTGAGG 1049
QY      1080 AGGCTCTAGTGTCTTGAATTCCTTGTCTCATCAGAGACCCCGCTGCGGAACAGCC 1139
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1050 AGGCTCTAGTGTCTTGAATTCCTTGTCTCATCAGAGACCCCGCTGCGGAACAGCC 1109
QY      1140 TGGCGCACTGCCAGAGAGCAGTGCACAAACACCAACACAGAGCGTGTTCCTTGGAGAGA 1199
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1110 TGGCGCACTGCCAGAGAGCAGTGCACAAACACCAACACAGAGCGTGTTCCTTGGAGAGA 1169
QY      1200 ATGTCCCGAGTTGACAGAGGCTGTTCGTGACATCAGCTCATTTCCCGCACCCCAT 1259
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1170 ATGTCCCGAGTTGACAGAGGCTGTTCGTGACATCAGCTCATTTCCCGCACCCCAT 1229
QY      1260 TTCTTGTCTGATGCTTGTGGGGCTGCGCACTTCTTGTCTCTCAAGTGCACAAAT 1319
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1230 TTCTTGTCTGATGCTTGTGGGGCTGCGCACTTCTTGTCTCTCAAGTGCACAAAT 1289
QY      1320 CTCACITTCGAATAAATAGTCCAGTGTTCCTTCCCTTC 1354
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1290 CTCACITTCGAATAAATAGTCCAGTGTTCCTTCCCTTC 1324

RESULT 11
US-10-023-896-11
; Sequence 11, Application US/10023896
; Publication No. US2003002776A1
; GENERAL INFORMATION:
; APPLICANT: Victor Roschke
; TITLE OF INVENTION: 29 Human Cancer Associated Proteins
; FILE REFERENCE: PA004PI
; CURRENT APPLICATION NUMBER: US/10/023,896
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: unassigned
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: PCT/US00/23794
; PRIOR FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/152,296
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/158,003
; PRIOR FILING DATE: 1999-10-06
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 1388
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1388)..(1388)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-023-896-11
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Query Match 88.8%; Score 1202; DB 14; Length 1388;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 1213; Conservative 1; Mismatches 1; Indels 1; Gaps 1;

QY 140 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAAGCCAGGAGCCGAGCGTGGTG 199  
DB 120 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAAGCCAGGAGCCGAGCGTGGTG 179

QY 200 GCAGGTGGCAGTGTCTCTGATGACGAGGTTTGTGACGACATGCTGTGTAAGTCTGCTG 259  
DB 180 GCAGGTGGCAGTGTCTCTGATGACGAGGTTTGTGACGACATGCTGTGTAAGTCTGCTG 239

QY 260 GCTGTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 319  
DB 240 GCTGTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 299

QY 320 GCTGTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 379  
DB 300 GCTGTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 359

QY 380 GGAATATCAGTGTGACACTTCAACCTGCGGTGCTCTGACGACATGCTGATCGGAG 439  
DB 360 GGAATATCAGTGTGACACTTCAACCTGCGGTGCTCTGACGACATGCTGATCGGAG 419

QY 440 GCTTCAACCTGATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 499  
DB 420 GCTTCAACCTGATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 479

QY 500 GGGCTGCTGTCGACGAGGCGGTGAGTCTGAGGAGAGTCTGGAATCACTGAGGCGG 559  
DB 480 GGGCTGCTGTCGACGAGGCGGTGAGTCTGAGGAGAGTCTGGAATCACTGAGGCGG 539

QY 560 CTTTGTGACAGTCCAGGAGGCGGTGAGTCTGAGGAGAGTCTGGAATCACTGAGGCGG 619  
DB 540 CTTTGTGACAGTCCAGGAGGCGGTGAGTCTGAGGAGAGTCTGGAATCACTGAGGCGG 599

QY 620 TCACAGCCTGCTGCGCCTGCTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 679  
DB 600 TCACAGCCTGCTGCGCCTGCTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 659

QY 680 CTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 739  
DB 660 CTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 719

QY 740 TGTCTGAGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 799  
DB 720 TGTCTGAGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 779

QY 800 GGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 859  
DB 780 GGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 839

QY 860 TCATTAGTGTCTTATTGAGATGGAAGAGACCCGCTCTATCTGAAAGGCTGCTGGAAGCA 919  
DB 840 TCATTAGTGTCTTATTGAGATGGAAGAGACCCGCTCTATCTGAAAGGCTGCTGGAAGCA 899

QY 920 GAGCTCTGAGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 979  
DB 900 GAGCTCTGAGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 959

QY 980 AGGGAGTTCCTGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1039  
DB 960 AGGGAGTTCCTGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1019

QY 1040 CTGCTTGGGCTGCTTCTCAGATAGTACTGCTGAGGAGGCTTAGTGTCTTGAAT 1099  
DB 1020 CTGCTTGGGCTGCTTCTCAGATAGTACTGCTGAGGAGGCTTAGTGTCTTGAAT 1079

QY 1100 TCTTTTGTGCTCATCAGACACCCAGCTGAGGAGACAGCTGCCCACTGCCAGAGAG 1159  
DB 1080 TCTTTTGTGCTCATCAGACACCCAGCTGAGGAGACAGCTGCCCACTGCCAGAGAG 1139

QY 1160 CAGTGCAAAACCAACACAGAGCGTGTCTTCTGAGAGGAATGTCCTCCGAGTTGGACAAG 1219

DB 1140 CAGTGCAAAACCAACACAGAGCGTGTCTTCTGAGAGGAATGTCCTCCGAGTTGGACAAG 1199

QY 1220 GAGGCTGTGTTCTGACATCAGCTCATTTCCCGACCCCATTTCTGCTTGAATGCTTTGT 1279

DB 1200 GAGGCTGTGTTCTGACATCAGCTCATTTCCCGACCCCATTTCTGCTTGAATGCTTTGT 1259

QY 1280 TGGGGCCCTGGCCATCCTGCTGCTTCAAGCTGACAAATCT-CACTTTGGCAATAAATAG 1338

DB 1260 TGGGGCCCTGGCCATCCTGCTGCTTCAAGCTGACAAATCTGCTGCTGCTGCTGCTGCT 1319

QY 1339 TCCAGTGTGTTCTCTCC 1354

DB 1320 TCCAGTGTGTTCTCTCC 1335

RESULT 12  
US-10-106-698-1986  
; Sequence 1986, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypept  
; FILE REFERENCE: PA005PI  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: Patent In Ver. 3.0  
; SEQ ID NO 1986  
; LENGTH: 1712  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1688)..(1688)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: misc\_feature  
; LOCATION: (1692)..(1692)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: misc\_feature  
; LOCATION: (1697)..(1697)  
; OTHER INFORMATION: n equals a,t,g, or c  
US-10-106-698-1986

Query Match 88.8%; Score 1202; DB 14; Length 1712;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 1213; Conservative 1; Mismatches 1; Indels 1; Gaps 1;

QY 140 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAAGCCAGGAGCCGAGCGTGGTG 199

DB 388 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAAGCCAGGAGCCGAGCGTGGTG 447

QY 200 GCAGGTGGCAGTGTCTCTGATGACGAGTGTGACGACATGCTGTGTAAGTCTGCTGCTG 259

DB 448 GCAGGTGGCAGTGTCTCTGATGACGAGTGTGACGACATGCTGTGTAAGTCTGCTGCTG 507

QY 260 GCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 319

DB 508 GCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 567

QY 320 GCTCTGCTGACGCGGCGCTGCGCCACGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 379

DB 568 GCTCTGCTGACGCGGCGCTGCGCCACGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 627

QY 380 GGAATATCAGTGTGACACTTCAACCTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 439

DB 628 GGAATATCAGTGTGACACTTCAACCTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 687



Publication No. US20030044783A1  
 GENERAL INFORMATION:  
 APPLICANT: Williams, Lewis T.  
 APPLICANT: Escobedo, Jaime  
 APPLICANT: Innis, Michael A.  
 APPLICANT: Garcia, Pablo Dominiguez  
 APPLICANT: Sudduth-Klinger, Julie  
 APPLICANT: Reinhard, Christoph  
 APPLICANT: Giese, Klaus  
 APPLICANT: Randazzo, Filippo  
 APPLICANT: Kennedy, Giulia C.  
 APPLICANT: Pot, David  
 APPLICANT: Kassam, Altaf  
 APPLICANT: Lamsom, George  
 APPLICANT: Drmanac, Radoje  
 APPLICANT: Crkvenjakov, Radomir  
 APPLICANT: Dickson, Mark  
 APPLICANT: Drmanac, Snezana  
 APPLICANT: Labat, Ivan  
 APPLICANT: Leshkowitz, Dena  
 APPLICANT: Kita, David  
 APPLICANT: Garcia, Veronica  
 APPLICANT: Jones, Lee William  
 APPLICANT: Stache-Grain, Birgit  
 TITLE OF INVENTION: Human Genes and Gene Products  
 FILE REFERENCE: 1624.002  
 CURRENT APPLICATION NUMBER: US/09/803,719  
 CURRENT FILING DATE: 2001-03-09  
 PRIOR APPLICATION NUMBER: 60/188,609  
 PRIOR FILING DATE: 2000-03-09  
 NUMBER OF SEQ ID NOS: 2396  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 2329  
 LENGTH: 321  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 US-09-803-719-2329

Query Match 23.3%; Score 315.2; DB 11; Length 321;  
 Best Local Similarity 99.1%; Pred. No. 2.2e-84;  
 Matches 317; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 668 AGCAAGGCGCCCTGCGCCCGCTCCATCGGCTTTCGCGTCCGATGATATCTGG 727  
 Db 1 AGCAAGGCGCCCTGCGCCCGCTCCATCGGCTTTCGCGTCCGATGATATCTGG 60  
 QY 728 CTGGGGGCGCCCTGCTGCTGGAGGCTGCATGAATCCCGCCCGCTTTTGGACCTGGGTTG 787  
 Db 61 CTGGGGGCGCCCTGCTGCTGGAGGCTGCATGAATCCCGCCCGCTTTTGGACCTGGGTTG 120  
 QY 788 TGGCCAAACCTGGAGCTTCATGATCTACTGGCTGGGCGCCACTCTGGCTGGCTGCTG 847  
 Db 121 TGGCCAAACCTGGAGCTTCATGATCTACTGGCTGGGCGCCACTCTGGCTGGCTGCTG 180  
 QY 848 TTGTTGAGTGTCTATAGGTGCTTCATTGGAGATGGGAAGACCCCGCTCATCTCTGAAGG 907  
 Db 181 TTGTTGAGTGTCTATAGGTGCTTCATTGGAGATGGGAAGACCCCGCTCATCTCTGAAGG 240  
 QY 908 CTGGGTGAAGAGAGCTCGTGGGATTCCTGCTGCCAGTGTCTCAGTCACTGCTGCTG 967  
 Db 241 CTGGGTGAAGAGAGCTCGTGGGATTCCTGCTGCCAGTGTCTCAGTCACTGCTGCTG 300  
 QY 968 CAGACTGAGGACAGGGAGT 987  
 Db 301 CAGACTGAGGACAGGGAGT 320

RESULT 15  
 US-09-803-719-2269  
 ; Sequence 2269, Application US/09803719  
 ; Publication No. US20030044783A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Williams, Lewis T.

APPLICANT: Escobedo, Jaime  
 APPLICANT: Innis, Michael A.  
 APPLICANT: Garcia, Pablo Dominiguez  
 APPLICANT: Sudduth-Klinger, Julie  
 APPLICANT: Reinhard, Christoph  
 APPLICANT: Giese, Klaus  
 APPLICANT: Randazzo, Filippo  
 APPLICANT: Kennedy, Giulia C.  
 APPLICANT: Pot, David  
 APPLICANT: Kassam, Altaf  
 APPLICANT: Lamsom, George  
 APPLICANT: Drmanac, Radoje  
 APPLICANT: Crkvenjakov, Radomir  
 APPLICANT: Dickson, Mark  
 APPLICANT: Drmanac, Snezana  
 APPLICANT: Labat, Ivan  
 APPLICANT: Leshkowitz, Dena  
 APPLICANT: Kita, David  
 APPLICANT: Garcia, Veronica  
 APPLICANT: Jones, Lee William  
 APPLICANT: Stache-Grain, Birgit  
 TITLE OF INVENTION: Human Genes and Gene Products  
 FILE REFERENCE: 1624.002  
 CURRENT APPLICATION NUMBER: US/09/803,719  
 CURRENT FILING DATE: 2001-03-09  
 PRIOR APPLICATION NUMBER: 60/188,609  
 PRIOR FILING DATE: 2000-03-09  
 NUMBER OF SEQ ID NOS: 2396  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 2269  
 LENGTH: 317  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 NAME/KEY: misc\_feature  
 LOCATION: (1)...(317)  
 OTHER INFORMATION: n = A,T,C or G  
 US-09-803-719-2269

Query Match 23.1%; Score 312.8; DB 11; Length 317;  
 Best Local Similarity 99.4%; Pred. No. 1.2e-83;  
 Matches 314; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 731 GGGGCGCTGTGTCTGAGGCTGCATGAATCCCGCCCGCTTTTGGACCTGGGTTG 790  
 Db 1 GGGGCGCTGTGTCTGAGGCTGCATGAATCCCGCCCGCTTTTGGACCTGGGTTG 60  
 QY 791 CCACCACTGGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 850  
 Db 61 CCACCACTGGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120  
 QY 851 TTGAGCTGCTCATAGTGTCTTCATTGGAGATGGGAAGACCCCGCTCATCTCTGAAGGCTC 910  
 Db 121 TTGAGCTGCTCATAGTGTCTTCATTGGAGATGGGAAGACCCCGCTCATCTCTGAAGGCTC 180  
 QY 911 GGTGAAGCAGAGCTCGTGGGATTCCTGCTGCCAGTGTCTCAGTCACTGCTGCTGCTG 970  
 Db 181 GGTGAAGCAGAGCTCGTGGGATTCCTGCTGCCAGTGTCTCAGTCACTGCTGCTGCTG 240  
 QY 971 ACTGAGGACAGGGAGTTCCTGCTATTCCTGCCAGGCGAGAGCCCGAGAGGAGGAGCC 1030  
 Db 241 ACTGAGGACAGGGAGTTCCTGCTATTCCTGCCAGGCGAGAGCCCGAGAGGAGGAGCC 300  
 QY 1031 CTGCTTCCACTGCTTG 1046  
 Db 301 CTGCTTCCACTGCTTG 316

Search completed: October 15, 2003, 14:51:32  
 Job time : 270.374 secs